

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒**APPLICATION FOR PERMIT TO DRILL****1. WELL NAME and NUMBER**

Carter Peak Federal 13-1

**2. TYPE OF WORK**DRILL NEW WELL ☒ REENTER P&A WELL ☐ DEEPEN WELL ☐**3. FIELD OR WILDCAT**

WILDCAT

**4. TYPE OF WELL**

Oil Well Coalbed Methane Well: NO

**5. UNIT or COMMUNITIZATION AGREEMENT NAME**

WOLVERINE

**6. NAME OF OPERATOR**

WOLVERINE GAS &amp; OIL COMPANY OF UTAH, LLC

**7. OPERATOR PHONE**

435 896-1943

**8. ADDRESS OF OPERATOR**

1140 N. Centennial Park Dr., Richfield, UT, 84701

**9. OPERATOR E-MAIL**

ciron@wolvgas.com

**10. MINERAL LEASE NUMBER  
(FEDERAL, INDIAN, OR STATE)**

UTU-74853

**11. MINERAL OWNERSHIP**FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐**12. SURFACE OWNERSHIP**FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐**13. NAME OF SURFACE OWNER (if box 12 = 'fee')****14. SURFACE OWNER PHONE (if box 12 = 'fee')****15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')****16. SURFACE OWNER E-MAIL (if box 12 = 'fee')****17. INDIAN ALLOTTEE OR TRIBE NAME  
(if box 12 = 'INDIAN')****18. INTEND TO COMMINGLE PRODUCTION FROM  
MULTIPLE FORMATIONS**YES ☐ (Submit Commingling Application) NO ☒**19. SLANT**VERTICAL ☐ DIRECTIONAL ☒ HORIZONTAL ☐**20. LOCATION OF WELL****FOOTAGES****QTR-QTR****SECTION****TOWNSHIP****RANGE****MERIDIAN****LOCATION AT SURFACE**

852 FSL 1329 FWL

SESW

13

22.0 S

1.0 W

S

**Top of Uppermost Producing Zone**

1290 FSL 1028 FWL

SWSW

13

22.0 S

1.0 W

S

**At Total Depth**

1290 FSL 1028 FWL

SWSW

13

22.0 S

1.0 W

S

**21. COUNTY**

SEVIER

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**

1028

**23. NUMBER OF ACRES IN DRILLING UNIT**

40

**25. DISTANCE TO NEAREST WELL IN SAME POOL  
(Applied For Drilling or Completed)**

0

**26. PROPOSED DEPTH**

MD: 10000 TVD: 9973

**27. ELEVATION - GROUND LEVEL**

5406

**28. BOND NUMBER**

WYB000616

**29. SOURCE OF DRILLING WATER /  
WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**

City of Salina (21014)

**ATTACHMENTS****VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER



COMPLETE DRILLING PLAN



AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)



FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER

DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY  
DRILLED)

TOPOGRAPHICAL MAP

**NAME** Charles Irons**TITLE** Senior Landman**PHONE** 435 896-1943**SIGNATURE****DATE** 06/16/2009**EMAIL** ciron@wolvgas.com**API NUMBER ASSIGNED**  
43041500020000**APPROVAL**


Permit Manager

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2000		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	2000	36.0			

CONFIDENTIAL

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	8.75	5.5	0	10000		
Pipe	Grade	Length	Weight			
	Grade L-80 LT&C	10000	20.0			

CONFIDENTIAL

# **WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC**

## **DRILLING PLAN**

### **Carter Peak Federal 13-1**

**SE/4 SW/4 Section 13, Township 22 South, Range 1 West, S.L.B & M.  
Sevier County, Utah**

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#### **Plan Summary:**

It is planned to drill this confidential exploratory well as a directional bore hole due to surface topography constraints and in accordance with the enclosed directional drilling plan. The well will be drilled to a measured depth of 10,000' (9973' TVD) to test the upper thrust of the Twin Creek and Navajo formations. Well path deviation caused by subsurface geologic irregularities is expected to be the primary drilling concern in this area. No abnormal pressure is anticipated.

The planned location is as follows:

Surface Location:	852' FSL, 1329' FWL, Section 13, T22S, R1W, S.L.B. & M.
Bottom Hole Location @ Navajo 1 target	1290' FSL, 1028' FWL, Section 13, T22S, R1W, S.L.B. & M.
Bottom Hole Location @ total depth	1290' FSL, 1028' FWL, Section 13, T22S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 120 feet GL and cemented to surface. A 12-1/4" hole will be drilled vertically to approximately 2000' KB where 9-5/8" surface casing will be set and cemented to surface. An 8-3/4" hole will be drilled below the surface casing and deviation will be increased at 1.5 degrees per 100' to 6 degrees from vertical. The deviation will be held at 6 degrees to a depth of approximately 7100' MD (7074' TVD) and then allowed to drop to vertical before penetrating the Twin Creek and Navajo formations. The well will be drilled to a total depth of 10,000' (9973' TVD) where logs will be run and 5-1/2" production casing will be set and cemented if justified by the drilling results.

Drilling activities at this well are expected to commence in August 2009.

Wolverine Gas and Oil Company of Utah, LLC  
APD Drilling Program  
Carter Peak Federal 13-1

**Well Name:** Carter Peak Federal 13-1

**Surface Location:** 852' FSL, 1329' FWL  
SE/4 SW/4 Section 13, T22S, R1W, S.L.B. & M.  
Sevier County, Utah

**TD Bottom-Hole Location:** 1290' FSL, 1028' FWL; Sec. 13, T22S, R1W, S.L.B. & M

**Elevations:** 5406' GL, 5432' KB

## I. Geology:

Tops of important geologic markers and anticipated water, oil, gas, and mineral content are as follows:

<b>Formation</b>	<b>TVD Interval (KB)</b>	<b>MD Interval (KB)</b>	<b>Contents</b>	<b>Pressure Gradient</b>
Arapien	26' – 8217'	26' – 8244'		
Twin Creek 1	8217' – 8612'	8244' – 8639'	Oil & water	0.44 psi/ft
Navajo 1	8612' – 9973'	8639' – 10,000'	Oil & water	0.44 psi/ft
Total Depth	9973'	10,000'		

## II. Well Control:

The contracted drilling rig is expected to have a 10M BOP system but conditions only require a 5M BOP system. BOPE will be in place and tested as a 5M system prior to drilling out the surface casing shoe. See attached schematic of BOPE.

A. The BOPE will, as a minimum, include the following:

### Wellhead Equipment (5M Min.):

<b>BOPE Item</b>	<b>Flange Size and Rating</b>
Annular Preventer	13-5/8" 5M
Double Rams (5" Pipe - top, Blind - bottom)	13-5/8" 10M
Drilling Spool w/ 2 side outlets (4" Choke Line, 4" Kill Line)	13-5/8" 10M x 13-5/8" 10M
Single Ram (Pipe)	13-5/8" 10M
DSA	13-5/8" 10M x 11" 5M
Casing Head (9-5/8" SOW w/ two 2-1/16" SSO's)	11" 5M

### Auxiliary Equipment (5M Min.):

<b>BOPE Item</b>
Choke Line with 2 valves (3" minimum)
Kill Line with 2 valves and one check valve (2" Minimum)
2 Chokes with one remotely controlled at a location readily accessible to the driller
Upper and lower kelly cock valves with handles
Safety Valves to fit all drill string connections in use
Inside BOP or float sub
Pressure gauge on choke manifold
Fill-up line above the uppermost preventer
Wear bushing in casing head

- B. **Choke manifold** will be functionally equipped and sized at a minimum as shown on the attached diagram. All choke lines will be straight lines unless turns have tee blocks or are targeted with running tees, and all choke lines will be anchored. All valves (except chokes) in the kill line choke manifold and choke line will be full opening and allow straight through flow.
- C. **System accumulator** will have sufficient capacity to open the hydraulically-controlled gate valve and close all rams plus the annular preventer (3 ram system will have added 50 percent safety factor to compensate for any fluid loss in the control system or preventers) and retain a minimum pressure of 200 psi above pre-charge on the closing manifold without use of the closing unit pumps. The fluid reservoir capacity shall be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir shall be maintained at the manufacturer's recommendations. The accumulator will have two (2) independent power sources available to close the preventers. Nitrogen bottles may be one of those sources, and if so, will have charge maintained per manufacturer's specifications.
- D. **Accumulator pre-charge pressure test** will be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum specified limits. Only nitrogen gas will be used to precharge.
- E. **Power for the closing unit pumps** will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure has decreased to the pre-set level.
- F. **Accumulator pump capacity** will be such that, with the accumulator system isolated from service, the pumps will be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and retaining a minimum of 200 psi above the specified accumulator pre-charge pressure.
- G. **Locking devices**, either manual (i.e., hand wheels) or automatic, will be installed on the ram type preventers. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.
- H. **Remote controls** will be readily accessible to the driller and will be capable of both opening and closing all preventers. Master controls shall be at the accumulator and shall be capable of opening and closing all preventers and the choke line valve.
- I. **Well control equipment testing** will be performed using clear water when the equipment is initially installed, whenever any seal subject to test pressure is broken, following related repairs, and as a minimum, every 30-day interval. The tests will apply to all related well control equipment.

Ram type preventers and associated equipment will be isolated and tested to 5000 psi. The annular preventer will be tested to 2500 psi. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer, for all tests. A casing head valve will be open below the test plug during testing of the BOP stack. Valves will be tested from the working pressure side with all down-stream valves open. Kill line valves will be tested with the check valve held open or the ball removed.

Pipe and blind rams will be activated each trip, but not more than once a day. The annular preventers will be functionally operated at least weekly. A pit level drill will be conducted weekly for each crew. All BOPE drills and tests will be recorded in the IADC driller's log.

Wolverine Gas and Oil Company of Utah, LLC  
APD Drilling Program  
Carter Peak Federal 13-1

### III. Casing and Cementing:

#### A. Casing Program (all new casing):

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection</u>	<u>Coupling Diameter</u>	<u>Setting Depth</u>
30"	20"		Conductor			0' - 120' GL
12.25"	9.625"	36	J-55	STC	10.625"	0' - 2000' KB
8.75"	5.500"	20	L-80	LTC	6.050"	0' - 6000' KB
8.75"	5.500"	20	P-110	LTC	6.050"	6000' - 8400' KB
8.75"	5.500"	20	L-80	LTC	6.050"	8400' - 10000' KB

	<u>Surface</u>	<u>Intermediate</u>	<u>Production</u>
Casing O. D. (in)	9.625		5.500
Casing Grade	J-55		L-80/P-110
Weight of Pipe (lbs/ft)	36.0		20.0
Connection	STC		LTC
Top Setting Depth - MD (ft)	0		0
Top Setting Depth - TVD (ft)	0		0
Bottom Setting Depth - MD (ft)	2000		10000
Bottom Setting Depth - TVD (ft)	2000		9973
Maximum Mud Weight - Inside (ppg)	9.2		10.5
Maximum Mud Weight - Outside (ppg)	9.2		10.5
Design Cement Top - MD (ft)	0		2000
Design Cement Top - TVD (ft)	0		2000
Max. Hydrostatic Inside w/ Dry Outside (psi)	957		5445
Casing Burst Rating (psi)	3520		9190
<b>Burst Safety Factor (1.10 Minimum)</b>	3.68		1.69
Max. Hydrostatic Outside w/ Dry Inside (psi)	957		5445
Collapse Rating	2020		8830
<b>Collapse Safety Factor (1.125 Minimum)</b>	2.11		1.62
Casing Weight in Air (kips)	72.0		200.0
Body Yield (kips)	564		466
Joint Strength (kips)	394		428
<b>Tension Safety Factor (1.80 Minimum)</b>	5.47		2.14

Casing with same or greater burst, collapse, and tension rating may be substituted for any of the planned casing sizes depending on availability and actual conditions.

Wolverine Gas and Oil Company of Utah, LLC  
APD Drilling Program  
Carter Peak Federal 13-1

## B. Cementing Program

<u>Casing Size</u>	<u>Cement Slurry</u>	<u>Quantity (sks)</u>	<u>Density (ppg)</u>	<u>Yield (ft<sup>3</sup>/sk)</u>
9.625"	Lead: Extended Cement	250	11.0	3.48
	Tail: Class G or Premium	350	15.8	1.17
5.500"	Lead: N2 foamed Cement	910	10.5	2.00
	Tail: non-foamed Premium	430	14.35	1.45

Surface: 9-5/8" surface casing will be cemented from setting depth (2000' MD) to surface and topped out with premium cement if necessary. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom three (3) casing joints. Water or other preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Intermediate: none

Production: 5-1/2" production casing will be cemented in one stage from setting depth (10000') to 2000' (to the 9-5/8" casing) using a foamed or light weight cement lead and a non-foamed standard weight tail across the producing interval. A minimum of 20 percent silica will be added to the tail cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volume will be based on calipered hole size plus 20% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers as needed across any pay zones. Salt water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

- Other:
- The BLM will be notified at least twenty-four hours prior to running and cementing the surface and production casing strings.
  - Actual cement slurries for all casing will be based on final service company recommendations.
  - The size, weight, grade, type of thread, number of joints, and footage of all casing run will be recorded in the driller's log. The amount and type of all cement pumped will be recorded in the driller's log.
  - Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500-psi compressive strength.
  - All casing strings will be tested to 1500 psi before drilling out and if pressure declines by more than 10 percent in 30 minutes, corrective action will be taken.
  - Before drilling more than 20 feet of new hole below each casing string, a pressure integrity test of the casing shoe will be performed to a minimum of the mud weight equivalent anticipated to control the pore pressure to the next casing depth or at total depth of the well.



#### IV. Mud Program:

<u>Depth</u>	<u>Mud Weight (ppg)</u>	<u>Mud Type</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0 – 2000'	8.4 – 9.2	Fresh Water	26 – 50	N/C to 12 cc
2000' – 10000'	9.2 – 10.5	Salt Mud	36 – 50	N/C to 8 cc

- A. After mudding up, slow pump rates will be taken daily and recorded in the driller's log.
- B. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume.
- C. Abnormal pressures are not anticipated. In the event such pressures are to be anticipated, electronic/mechanical mud monitoring equipment will be in place and include as a minimum; pit volume totalizer (PVT); stroke counter; and flow sensor.
- D. A mud test will be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- E. The 10M BOPE system is not required for conditions on this well and use of the trip tank is not anticipated.
- F. Gas detecting equipment will be installed in the mud return system, and hydrocarbon gas shall be monitored for pore pressure changes. The presence of Hydrogen Sulfide gas is not expected but appropriate precautions will be taken in the event that it is encountered.
- G. The need to vent combustible or noncombustible gas is not expected. If needed, a flare system designed to gather and burn all gas will be available. The flare line discharge will be located at least 150 feet from the well head and it will be positioned downwind of the prevailing wind direction. The flare line will have straight lines unless turns are targeted with running tees and it will be anchored. The flare system will have an effective method for ignition.
- H. Abnormal pressure is not expected. If abnormal pressure is to be anticipated, a mud-gas separator (gas buster) will be installed and operable beginning at a point at least 500 feet above any anticipated hydrocarbon zone of interest.

#### V. Evaluation:

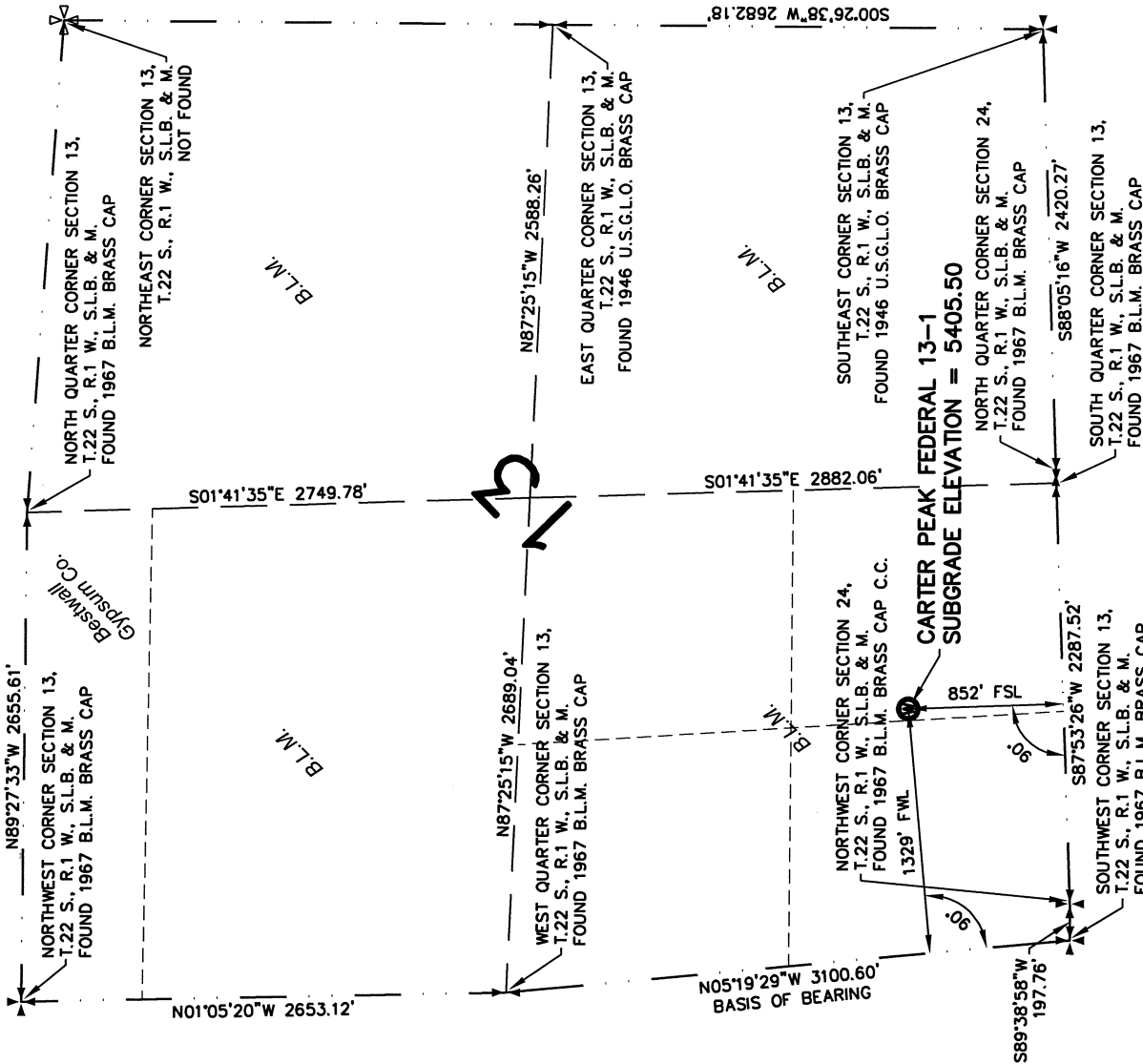
- A. Mud Log: A mud logging unit will be in operation from a depth of approximately 2000 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.
- B. Drill Stem Tests: There are no DSTs planned.
- C. Coring: There are no cores planned.
- D. Wireline Logs: Wireline logs will be run as hole conditions allow from total depth to surface casing to assist in determining lithology and potential for hydrocarbon recovery. The logging tools will at a minimum survey resistivity, gamma radiation, and sonic velocity.

#### VI. Expected Bottom-Hole Pressure and Abnormal Conditions:

- A. Hydrogen Sulfide: The presence of Hydrogen Sulfide (H<sub>2</sub>S) gas is unlikely but appropriate safety procedures are to be in place before penetrating the Twin Creek Formation because the possibility does exist.
- B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44 psi/ft.
- C. Temperature: Bottom-hole temperature at TD is expected to be approximately 240 °F.

end

# Section 13, T.22 S., R.1 W., S.L.B. & M.



## BASIS OF BEARINGS

BASIS OF BEARING USED WAS N05°19'29"W BETWEEN THE SOUTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 13, T.22 S., R.1 W., S.L.B. & M. WELL COORDINATES: LATITUDE: 38°53'19.4961" (38.888748917) NAD 83 - UTM ZONE 12N NAD 27 N-14122611.444 LONGITUDE: -111°51'47.1461" (-111.863096139) NAD 83 - UTM ZONE 12N NAD 27 N-1395040.657

## PROJECT

### Wolverine Gas & Oil Company of Utah, LLC.

WELL LOCATION, LOCATED AS SHOWN IN THE S.E. 1/4 OF THE S.W. 1/4 OF SECTION 13, T.22 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

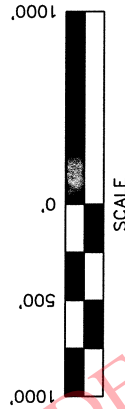
## LEGEND

- SECTION CORNERS (LOCATED)
- QUARTER SECTION CORNERS (LOCATED)
- SECTION CORNERS (NOT LOCATED)
- QUARTER SECTION CORNERS (NOT LOCATED)
- PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE CARTER PEAK FEDERAL 13-1 LOCATION, LOCATED IN THE S.E. 1/4 OF THE S.W. 1/4 OF SECTION 13, T.22 S., R.1 W., S.L.B. & M., SEVIER COUNTY, UTAH.

## BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 1988



## CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Jones & DeMille Engineering  
1535 South 100 West - Richfield, Utah 84701  
Phone (435) 896-8266  
Fax (435) 896-8268  
www.jonesanddemic.com

## Well Location Plat for

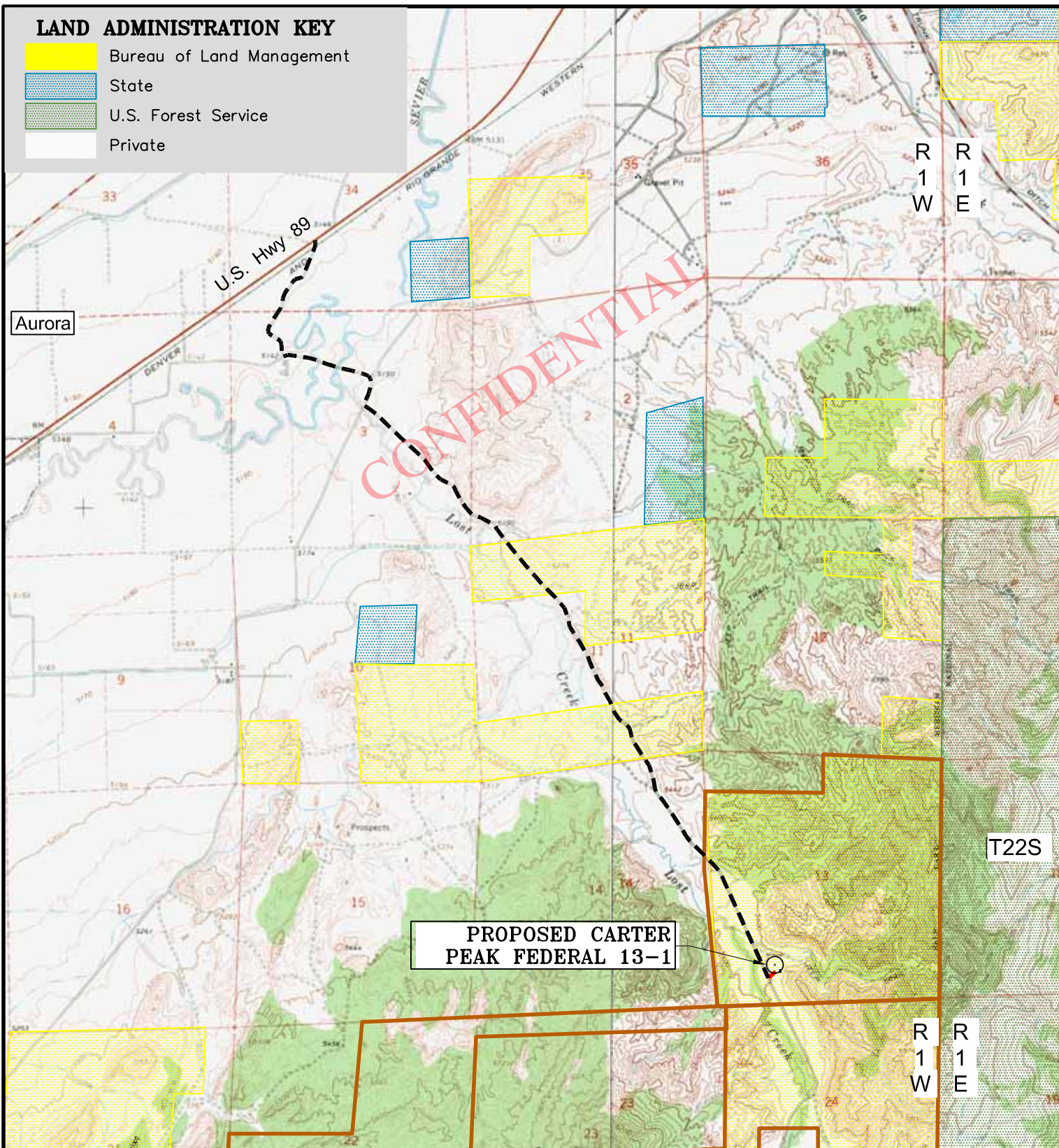
### Wolverine Gas & Oil Company of Utah, L.L.C.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
—	J.G.C.	T.R.G.	T.R.G.	0609-003	1
DATE	05/12/09	DWG. NAME	SCALE		
		WELL_LOC...	1"=1000'		



# LAND ADMINISTRATION KEY

- Bureau of Land Management
- State
- U.S. Forest Service
- Private



## LEGEND

- PROPOSED LOCATION
- EXISTING ROADWAY
- NEW ROADWAY
- LEASE BOUNDARY

**Carter Peak Federal 13-1**  
**Section 13, T.22 S., R.1 W., S.L.B. & M.**  
**852' FSL 1329' FWL**

Wolverine Gas & Oil Co. of Utah, LLC

Carter Peak Federal 13-1

Vicinity Map



**Jones & DeMille Engineering**  
 1535 South 100 West - Richfield, Utah 84701  
 Phone (435) 896-8266  
 Fax (435) 896-8268  
[www.jonesanddemille.com](http://www.jonesanddemille.com)



SCALE: 1"=3000'

DRAWN: B.L. 04-09	PEN TBL: 1stndrd-hp2800.ctb	PROJECT: 0609-003	SHEET: 1
CHECK: D.H.R. 04-09	FILE: site_0609-003	LAST UPDATE: 5/12/2009	





# WOLVERINE GAS & OIL COMPANY

Location: UTAH Slot: Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL  
Field: SEVIER COUNTY Well: Carter Peak Federal 13-1  
Facility: SEC.13-T22S-R1W Wellbore: **Carter Peak Federal 13-1 Rev A.0**

Plot reference wellpath is Carter Peak Federal 13-1_pwp Rev A.0		Grid System: NAD83 / Lambert Utah State Planes, Central Zone (4302), feet	
True vertical depths are referenced to Rig on Slot #01 Carter Peak Federal 13-1 (RT)		North Reference: True north	
Measured depths are referenced to Rig on Slot #01 Carter Peak Federal 13-1 (RT)		Scale: True distance	
Rig on Slot #01 Carter Peak Federal 13-1 (RT) to Mean Sea Level: 5432 feet		Depths are in feet	
Mean Sea Level to Mud line (Facility: SEC.13-T22S-R1W): 0 feet		Created by: bursoral on 5/20/2009	
Coordinates are in feet referenced to Slot			

## Location Information

Facility Name				Grid East (ft)	Grid North (ft)	Latitude	Longitude
SEC.13-T22S-R1W				1537060.714	6764197.788	38°53'19.496"N	111°51'47.146"W
Slot	Local N (ft)	Local E (ft)		Grid East (ft)	Grid North (ft)	Latitude	Longitude
Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL	0.00	0.00		1537060.714	6764197.788	38°53'19.496"N	111°51'47.146"W
Rig on Slot #01 Carter Peak Federal 13-1 (RT) to Mud line (Facility: SEC.13-T22S-R1W)						5432ft	
Mean Sea Level to Mud line (Facility: SEC.13-T22S-R1W)						0ft	
Rig on Slot #01 Carter Peak Federal 13-1 (RT) to Mean Sea Level						5432ft	

## Well Profile Data

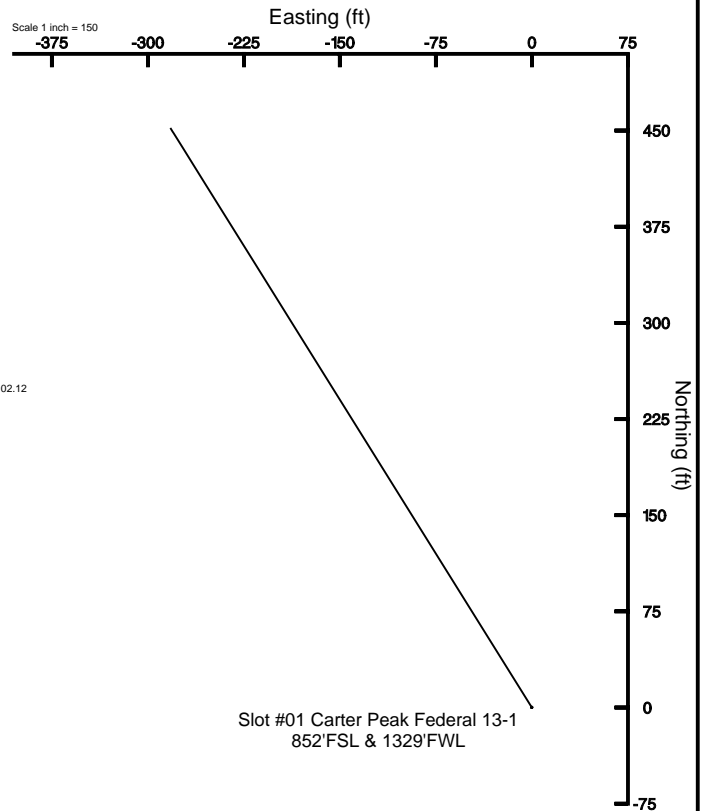
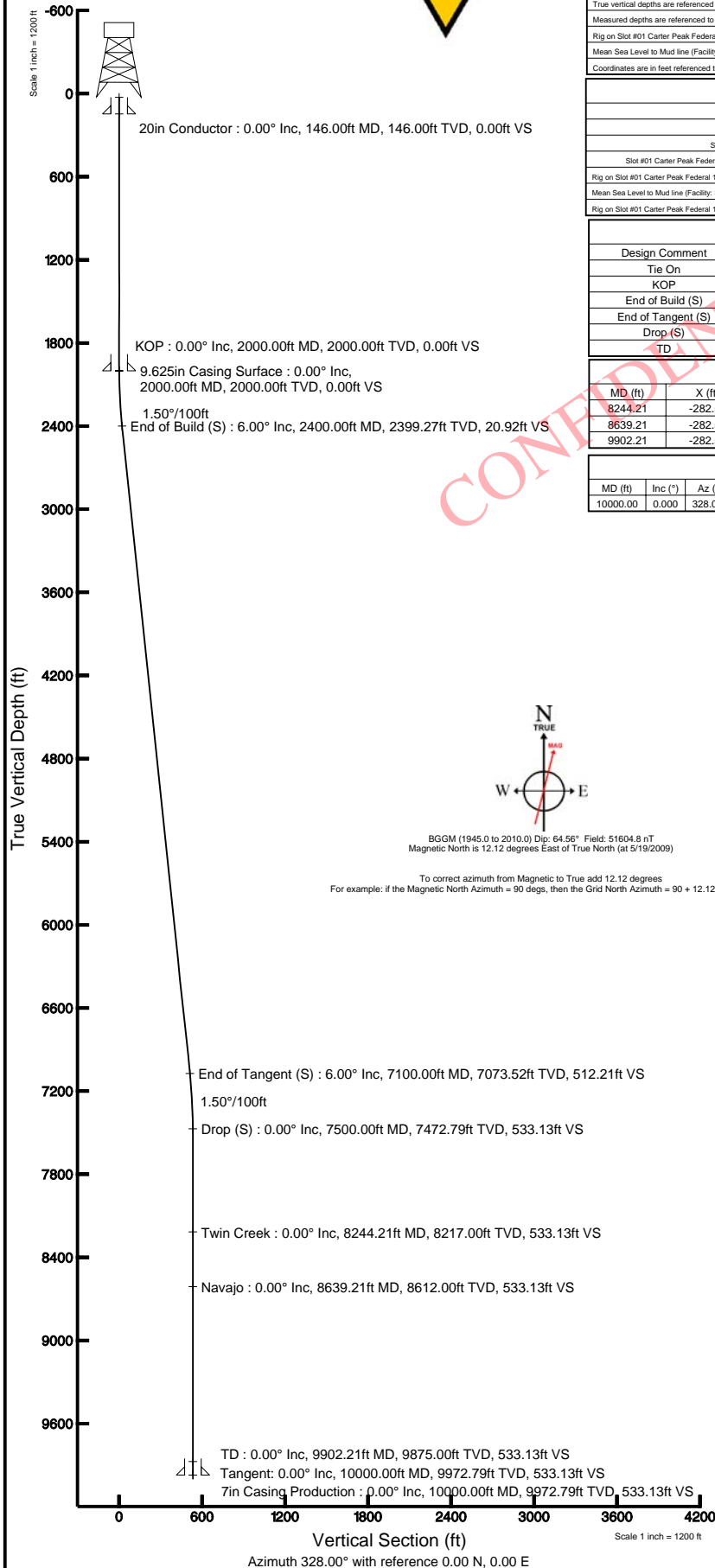
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	26.00	0.00	328.000	26.00	0.00	0.00	0.00	0.00
KOP	2000.00	0.00	328.000	2000.00	0.00	0.00	0.00	0.00
End of Build (S)	2400.00	6.00	328.000	2399.27	17.75	-11.09	1.50	20.92
End of Tangent (S)	7100.00	6.00	328.000	7073.52	434.38	-271.43	0.00	512.21
Drop (S)	7500.00	0.00	328.000	7472.79	452.12	-282.52	1.50	533.13
TD	10000.00	0.00	328.000	9972.79	452.12	-282.52	0.00	533.13

## Wellpath Comments

MD (ft)	X (ft)	Y (ft)	TVD (ft)	Inclination (°)	Azimuth (°)	VS (ft)	Comment
8244.21	-282.52	452.12	8217.00	0.00	328.000	533.13	Twin Creek
8639.21	-282.52	452.12	8612.00	0.00	328.000	533.13	Navajo
9902.21	-282.52	452.12	9875.00	0.00	328.000	533.13	TD

## Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude
10000.00	0.00	328.000	9972.79	452.12	-282.52	1536780.02	6764651.07	38°53'23.965"N	111°51'50.719"W





# Planned Wellpath Report

Carter Peak Federal 13-1\_pwp Rev A.0

Page 1 of 6



**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL
Area	UTAH	Well	Carter Peak Federal 13-1
Field	SEVIER COUNTY	Wellbore	Carter Peak Federal 13-1
Facility	SEC.13-T22S-R1W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Utah State Planes, Central Zone (4302), feet	Software System	WellArchitect® 2.0
North Reference	True	User	Buscnat
Scale	1.00004	Report Generated	5/20/2009 at 9:21:53 AM
Convergence at slot	0.23° West	Database/Source file	WellArchitect_Denver/Carter_Peak_Federal_13-1.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[ft]	Northing[ft]	Latitude	Longitude
Slot Location	0.00	0.00	1537060.71	6764197.79	38°53'19.496"N	111°51'47.146"W
Facility Reference Pt			1537060.71	6764197.79	38°53'19.496"N	111°51'47.146"W
Field Reference Pt			1516137.40	6732230.79	38°48'02.619"N	111°56'09.781"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Slot #01 Carter Peak Federal 13-1 (RT) to Facility Vertical Datum	5432.00ft
Horizontal Reference Pt	Slot	Rig on Slot #01 Carter Peak Federal 13-1 (RT) to Mean Sea Level	5432.00ft
Vertical Reference Pt	Rig on Slot #01 Carter Peak Federal 13-1 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on Slot #01 Carter Peak Federal 13-1 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	328.00°



# Planned Wellpath Report

Carter Peak Federal 13-1\_pwp Rev A.0

Page 2 of 6



INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL
Area	UTAH	Well	Carter Peak Federal 13-1
Field	SEVIER COUNTY	Wellbore	Carter Peak Federal 13-1
Facility	SEC.13-T22S-R1W		

## WELLPATH DATA (106 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	328.000	0.00	0.00	0.00	0.00	0.00
26.00	0.000	328.000	26.00	0.00	0.00	0.00	0.00
126.00†	0.000	328.000	126.00	0.00	0.00	0.00	0.00
226.00†	0.000	328.000	226.00	0.00	0.00	0.00	0.00
326.00†	0.000	328.000	326.00	0.00	0.00	0.00	0.00
426.00†	0.000	328.000	426.00	0.00	0.00	0.00	0.00
526.00†	0.000	328.000	526.00	0.00	0.00	0.00	0.00
626.00†	0.000	328.000	626.00	0.00	0.00	0.00	0.00
726.00†	0.000	328.000	726.00	0.00	0.00	0.00	0.00
826.00†	0.000	328.000	826.00	0.00	0.00	0.00	0.00
926.00†	0.000	328.000	926.00	0.00	0.00	0.00	0.00
1026.00†	0.000	328.000	1026.00	0.00	0.00	0.00	0.00
1126.00†	0.000	328.000	1126.00	0.00	0.00	0.00	0.00
1226.00†	0.000	328.000	1226.00	0.00	0.00	0.00	0.00
1326.00†	0.000	328.000	1326.00	0.00	0.00	0.00	0.00
1426.00†	0.000	328.000	1426.00	0.00	0.00	0.00	0.00
1526.00†	0.000	328.000	1526.00	0.00	0.00	0.00	0.00
1626.00†	0.000	328.000	1626.00	0.00	0.00	0.00	0.00
1726.00†	0.000	328.000	1726.00	0.00	0.00	0.00	0.00
1826.00†	0.000	328.000	1826.00	0.00	0.00	0.00	0.00
1926.00†	0.000	328.000	1926.00	0.00	0.00	0.00	0.00
2000.00	0.000	328.000	2000.00	0.00	0.00	0.00	0.00
2026.00†	0.390	328.000	2026.00	0.09	0.08	-0.05	1.50
2126.00†	1.890	328.000	2125.98	2.08	1.76	-1.10	1.50
2226.00†	3.390	328.000	2225.87	6.68	5.67	-3.54	1.50
2326.00†	4.890	328.000	2325.60	13.90	11.79	-7.37	1.50
2400.00	6.000	328.000	2399.27	20.92	17.75	-11.09	1.50
2426.00†	6.000	328.000	2425.13	23.64	20.05	-12.53	0.00
2526.00†	6.000	328.000	2524.58	34.10	28.91	-18.07	0.00
2626.00†	6.000	328.000	2624.03	44.55	37.78	-23.61	0.00



# Planned Wellpath Report

Carter Peak Federal 13-1\_pwp Rev A.0

Page 3 of 6



**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL
Area	UTAH	Well	Carter Peak Federal 13-1
Field	SEVIER COUNTY	Wellbore	Carter Peak Federal 13-1
Facility	SEC.13-T22S-R1W		

## WELLPATH DATA (106 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
2726.00†	6.000	328.000	2723.48	55.00	46.64	-29.15	0.00
2826.00†	6.000	328.000	2822.94	65.45	55.51	-34.69	0.00
2926.00†	6.000	328.000	2922.39	75.91	64.37	-40.22	0.00
3026.00†	6.000	328.000	3021.84	86.36	73.24	-45.76	0.00
3126.00†	6.000	328.000	3121.29	96.81	82.10	-51.30	0.00
3226.00†	6.000	328.000	3220.74	107.27	90.97	-56.84	0.00
3326.00†	6.000	328.000	3320.20	117.72	99.83	-62.38	0.00
3426.00†	6.000	328.000	3419.65	128.17	108.70	-67.92	0.00
3526.00†	6.000	328.000	3519.10	138.62	117.56	-73.46	0.00
3626.00†	6.000	328.000	3618.55	149.08	126.42	-79.00	0.00
3726.00†	6.000	328.000	3718.01	159.53	135.29	-84.54	0.00
3826.00†	6.000	328.000	3817.46	169.98	144.15	-90.08	0.00
3926.00†	6.000	328.000	3916.91	180.44	153.02	-95.62	0.00
4026.00†	6.000	328.000	4016.36	190.89	161.88	-101.16	0.00
4126.00†	6.000	328.000	4115.81	201.34	170.75	-106.69	0.00
4226.00†	6.000	328.000	4215.27	211.79	179.61	-112.23	0.00
4326.00†	6.000	328.000	4314.72	222.25	188.48	-117.77	0.00
4426.00†	6.000	328.000	4414.17	232.70	197.34	-123.31	0.00
4526.00†	6.000	328.000	4513.62	243.15	206.20	-128.85	0.00
4626.00†	6.000	328.000	4613.08	253.61	215.07	-134.39	0.00
4726.00†	6.000	328.000	4712.53	264.06	223.93	-139.93	0.00
4826.00†	6.000	328.000	4811.98	274.51	232.80	-145.47	0.00
4926.00†	6.000	328.000	4911.43	284.96	241.66	-151.01	0.00
5026.00†	6.000	328.000	5010.88	295.42	250.53	-156.55	0.00
5126.00†	6.000	328.000	5110.34	305.87	259.39	-162.09	0.00
5226.00†	6.000	328.000	5209.79	316.32	268.26	-167.63	0.00
5326.00†	6.000	328.000	5309.24	326.78	277.12	-173.16	0.00
5426.00†	6.000	328.000	5408.69	337.23	285.99	-178.70	0.00
5526.00†	6.000	328.000	5508.14	347.68	294.85	-184.24	0.00
5626.00†	6.000	328.000	5607.60	358.13	303.71	-189.78	0.00



# Planned Wellpath Report

Carter Peak Federal 13-1\_pwp Rev A.0

Page 4 of 6



**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL
Area	UTAH	Well	Carter Peak Federal 13-1
Field	SEVIER COUNTY	Wellbore	Carter Peak Federal 13-1
Facility	SEC.13-T22S-R1W		

## WELLPATH DATA (106 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5726.00†	6.000	328.000	5707.05	368.59	312.58	-195.32	0.00
5826.00†	6.000	328.000	5806.50	379.04	321.44	-200.86	0.00
5926.00†	6.000	328.000	5905.95	389.49	330.31	-206.40	0.00
6026.00†	6.000	328.000	6005.41	399.95	339.17	-211.94	0.00
6126.00†	6.000	328.000	6104.86	410.40	348.04	-217.48	0.00
6226.00†	6.000	328.000	6204.31	420.85	356.90	-223.02	0.00
6326.00†	6.000	328.000	6303.76	431.30	365.77	-228.56	0.00
6426.00†	6.000	328.000	6403.21	441.76	374.63	-234.10	0.00
6526.00†	6.000	328.000	6502.67	452.21	383.50	-239.63	0.00
6626.00†	6.000	328.000	6602.12	462.66	392.36	-245.17	0.00
6726.00†	6.000	328.000	6701.57	473.11	401.22	-250.71	0.00
6826.00†	6.000	328.000	6801.02	483.57	410.09	-256.25	0.00
6926.00†	6.000	328.000	6900.48	494.02	418.95	-261.79	0.00
7026.00†	6.000	328.000	6999.93	504.47	427.82	-267.33	0.00
7100.00	6.000	328.000	7073.52	512.21	434.38	-271.43	0.00
7126.00†	5.610	328.000	7099.39	514.84	436.61	-272.82	1.50
7226.00†	4.110	328.000	7199.03	523.31	443.79	-277.31	1.50
7326.00†	2.610	328.000	7298.85	529.17	448.76	-280.42	1.50
7426.00†	1.110	328.000	7398.80	532.42	451.51	-282.14	1.50
7500.00	0.000	328.000	7472.79	533.13	452.12	-282.52	1.50
7526.00†	0.000	328.000	7498.79	533.13	452.12	-282.52	0.00
7626.00†	0.000	328.000	7598.79	533.13	452.12	-282.52	0.00
7726.00†	0.000	328.000	7698.79	533.13	452.12	-282.52	0.00
7826.00†	0.000	328.000	7798.79	533.13	452.12	-282.52	0.00
7926.00†	0.000	328.000	7898.79	533.13	452.12	-282.52	0.00
8026.00†	0.000	328.000	7998.79	533.13	452.12	-282.52	0.00
8126.00†	0.000	328.000	8098.79	533.13	452.12	-282.52	0.00
8226.00†	0.000	328.000	8198.79	533.13	452.12	-282.52	0.00
8326.00†	0.000	328.000	8298.79	533.13	452.12	-282.52	0.00
8426.00†	0.000	328.000	8398.79	533.13	452.12	-282.52	0.00





# Planned Wellpath Report

Carter Peak Federal 13-1\_pwp Rev A.0

Page 5 of 6



INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL
Area	UTAH	Well	Carter Peak Federal 13-1
Field	SEVIER COUNTY	Wellbore	Carter Peak Federal 13-1
Facility	SEC.13-T22S-R1W		

## WELLPATH DATA (106 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8526.00†	0.000	328.000	8498.79	533.13	452.12	-282.52	0.00
8626.00†	0.000	328.000	8598.79	533.13	452.12	-282.52	0.00
8726.00†	0.000	328.000	8698.79	533.13	452.12	-282.52	0.00
8826.00†	0.000	328.000	8798.79	533.13	452.12	-282.52	0.00
8926.00†	0.000	328.000	8898.79	533.13	452.12	-282.52	0.00
9026.00†	0.000	328.000	8998.79	533.13	452.12	-282.52	0.00
9126.00†	0.000	328.000	9098.79	533.13	452.12	-282.52	0.00
9226.00†	0.000	328.000	9198.79	533.13	452.12	-282.52	0.00
9326.00†	0.000	328.000	9298.79	533.13	452.12	-282.52	0.00
9426.00†	0.000	328.000	9398.79	533.13	452.12	-282.52	0.00
9526.00†	0.000	328.000	9498.79	533.13	452.12	-282.52	0.00
9626.00†	0.000	328.000	9598.79	533.13	452.12	-282.52	0.00
9726.00†	0.000	328.000	9698.79	533.13	452.12	-282.52	0.00
9826.00†	0.000	328.000	9798.79	533.13	452.12	-282.52	0.00
9926.00†	0.000	328.000	9898.79	533.13	452.12	-282.52	0.00
10000.00	0.000	328.000	9972.79	533.13	452.12	-282.52	0.00

## HOLE & CASING SECTIONS

Ref Wellbore: Carter Peak Federal 13-1 Ref Wellpath: Carter Peak Federal 13-1\_pwp Rev A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	26.00	146.00	120.00	26.00	146.00	0.00	0.00	0.00	0.00
12.25in Open Hole	26.00	2000.00	1974.00	26.00	2000.00	0.00	0.00	0.00	0.00
9.625in Casing Surface	26.00	2000.00	1974.00	26.00	2000.00	0.00	0.00	0.00	0.00
8.75in Open Hole	2000.00	10000.00	8000.00	2000.00	9972.79	0.00	0.00	452.12	-282.52
7in Casing Production	2000.00	10000.00	8000.00	2000.00	9972.79	0.00	0.00	452.12	-282.52



# Planned Wellpath Report

Carter Peak Federal 13-1\_pwp Rev A.0

Page 6 of 6



**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL
Area	UTAH	Well	Carter Peak Federal 13-1
Field	SEVIER COUNTY	Wellbore	Carter Peak Federal 13-1
Facility	SEC.13-T22S-R1W		

## SURVEY PROGRAM Ref Wellbore: Carter Peak Federal 13-1 Ref Wellpath: Carter Peak Federal 13-1\_pwp Rev A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	10000.00	MTC (Collar, post-2000) (Standard)		Carter Peak Federal 13-1

CONFIDENTIAL

## WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

Energy Exploration in Partnership with the Environment



June 12, 2009

Diana Mason  
Permitting—Petroleum Technician  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Application for Permit to Drill (Utah ePermit #1614)  
Wolverine Gas and Oil Company of Utah, LLC  
**Carter Peak Federal 13-1**  
**Exception location letter**

Dear Mrs. Mason:

Wolverine Gas and Oil Company of Utah, LLC (Wolverine) hereby submits this letter in addition to the previously submitted plats, as part of the *Application for Permit to Drill* (APD) for the referenced well:

- R649-3-2 Exception Plat showing proposed BHL;
- R649-3-11 Directional Drilling Application Plat showing proposed BHL;

The City of Salina (Water System 21014) will be the source for water during drilling and completion operations on this proposed well. The surface at the planned drill site is administered by the Bureau of Land Management.

The proposed location is within 460' of a drilling unit boundary, so a request for exception to spacing (R649-3-2) is hereby requested for the well based on restrictive topography relative to and the need to drill at an optimum structural location. Wolverine is the only owner and operator within 460' of the proposed well location.

This letter and the accompanying plats are also intended to serve as an application for directionally drilling the well per R649-3-11. Wolverine is the owner of all oil and gas within 460 feet from all points along the intended wellbore for the well. Information relating to R649-3-11 is as follows:

Wolverine Gas and Oil Company of Utah, LLC  
1140 N Centennial Park Drive, Richfield, Utah 84701. Phone: 435-896-1943, Fax: 435-893-2134

Operator: Wolverine Gas and Oil Company of Utah, LLC

Address: 1140 N Centennial Park Drive  
Richfield, Utah 84701

Well: Carter Peak Federal 13-1

Field: NA (Wildcat)

Reservoir: NA (Wildcat)

County: Sevier

Reason: Restrictive topography and to minimize surface impact

Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and relating to this application and proposed well.

Thank you for consideration of this application. Please feel free to contact me or Paul Spiering of this office if you have any questions or need additional information.

Sincerely,



Charlie Irons  
Senior Landman



## Carter Peak Federal 13-1 Well Location

SHL: 852' FSL, 1329' FWL, SE/4 SW/4, Sec. 13, T22S, R1W, Sevier Co., UT

BHL: 1290' FSL, 1028 FWL, SW/4 SW/4, Sec. 13, T22S, R1W, Sevier Co., UT


 Wolverine Lease

 Proposed SHL

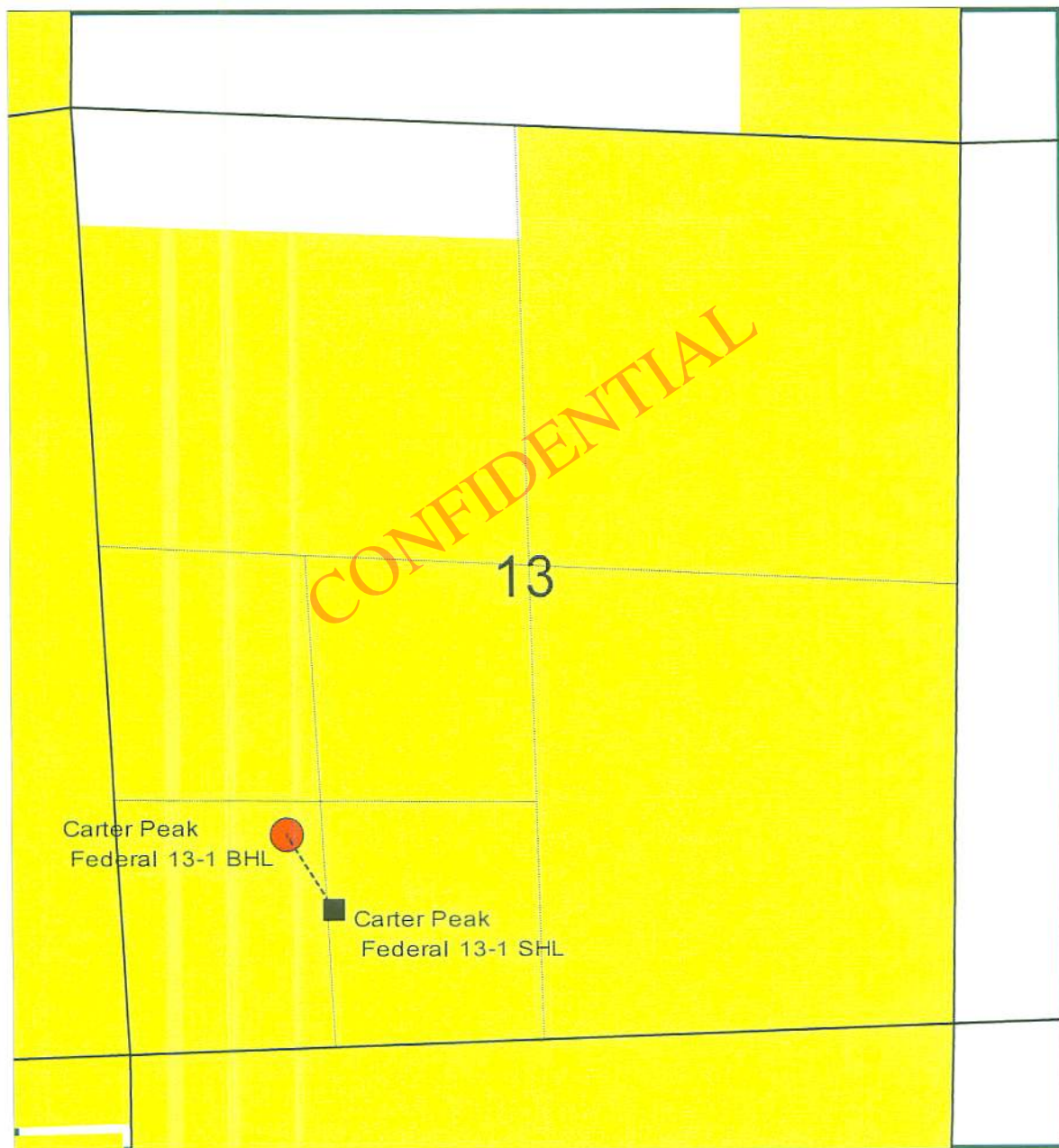
 Proposed BHL

1:12000

400 0 400 800 1200 ft

	<p><b>WOLVERINE GAS &amp; OIL Company of Utah, LLC</b> (Operator) <i>Energy Exploration in Partnership with the Environment</i></p> <p>ONE RIVERFRONT PLAZA 55 CAMP U. N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150</p>
<p>Exception Location and Ownership Plat (R649-3-2)</p>	
<p>Date: 5/21/2009</p>	<p>Author: Mark Lutz Filename: Document in Carter Peak exception plat.gmp</p>





## Carter Peak Federal 13-1 Well Location


SHL: 852' FSL, 1329' FWL, SE/4 SW/4, Sec. 13, T22S, R1W, Sevier Co., UT

BHL: 1290' FSL, 1028' FWL, SW/4 SW/4, Sec. 13, T22S, R1W, Sevier Co., UT

- Wolverine Lease
- Proposed SHL
- Proposed BHL

1:12000

400 0 400 800 1200 ft

	<b>WOLVERINE GAS &amp; OIL Company of Utah, LLC</b> (Operator) <i>Energy Exploration in Partnership with the Environment</i> ONE RIVERFRONT PLAZA 55 CAMPALU, N.W. GRAND RAPIDS, MI 49503-2616 (616) 456-1150
	Directional Drilling Application Plat (R649-3-11)
Date: 5/21/2009	Author: Mark Lutz Filename: Document in Carter Peak directional drilling plat.gmp

**API Number: 4304150002**

**Well Name: Carter Peak Federal 13-1**

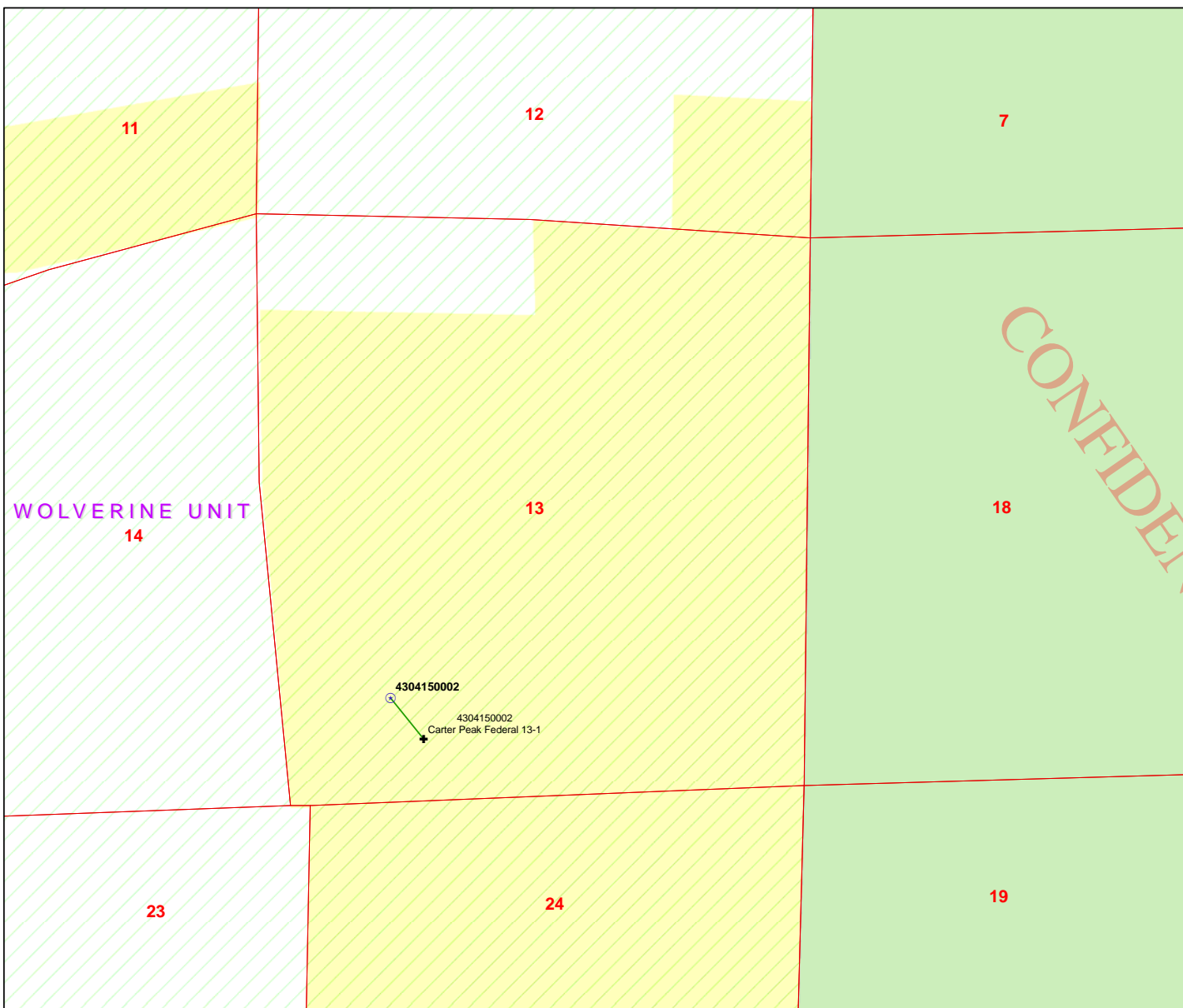
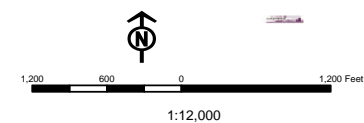
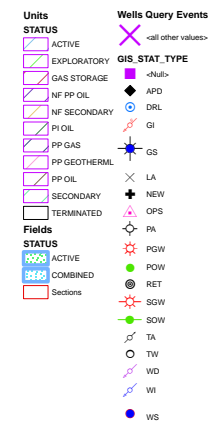
**Township 22.0 S Range 01.0 W Section 13**

**Meridian: SLBM**

Operator: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC

Map Prepared:

Map Produced by Diana Mason



**From:** <Michael\_Coulthard@blm.gov>  
**To:** <dianawhitney@utah.gov>  
**Date:** 6/17/2009 12:39 PM  
**Subject:** Re: New APD for WOLVERINE GAS & OIL COMPANY OF UTAH, LLC - WOLVERINE

**CC:** <Marvin\_Hendricks@blm.gov>  
Diana,

We just got a formal application for this well and the Mayfield 19-1 well. I have approved it and placed it the mail today.

Thank you,

Mickey

Michael L. Coulthard  
Petroleum Engineer  
Bureau of Land Management  
Phone (801) 539-4042  
Fax (801) 539-4261

CONFIDENTIAL

dianawhitney@utah.gov

To  
06/16/2009 01:33 PM Michael\_Coulthard@blm.gov  
cc  
dianawhitney@utah.gov  
Subject  
New APD for WOLVERINE GAS & OIL  
COMPANY OF UTAH, LLC - WOLVERINE

(Proposed PZ NAVAJO)

43-041-50002 Carter Peak Federal 13-1  
Surface Sec. 13 T. 22S R. 1W 852 FSL 1329 FWL  
Bottom Sec. 13 T. 22S R. 1W 1290 FSL 1028 FWL

Thank you,  
Diana



CONFIDENTIAL

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/16/2009

**API NO. ASSIGNED:** 43041500020000

**WELL NAME:** Carter Peak Federal 13-1

**OPERATOR:** WOLVERINE GAS & OIL COMPANY OF UTAH, LLC (N1655)

**PHONE NUMBER:** 435 896-1943

**CONTACT:** Charles Irons

**PROPOSED LOCATION:** SESW 13 220S 010W

**Permit Tech Review:** ☒

**SURFACE:** 0852 FSL 1329 FWL

**Engineering Review:** ☐

**BOTTOM:** 1290 FSL 1028 FWL

**Geology Review:** ☒

**COUNTY:** SEVIER

**LATITUDE:** 38.88813

**LONGITUDE:** -111.86212

**UTM SURF EASTINGS:** 425227.00

**NORTHINGS:** 4304508.00

**FIELD NAME:** WILDCAT

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-74853

**PROPOSED PRODUCING FORMATION(S):** NAVAJO

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

## RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - WYB000616
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** City of Salina (21014)
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingle Approved**

## LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** WOLVERINE
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** R649-3-11
- Effective Date:**
- Siting:**
- ☒ **R649-3-11. Directional Drill**

**Comments:** Presite Completed  
BHL SWSW:

**Stipulations:** 4 - Federal Approval - dmason  
15 - Directional - dmason  
23 - Spacing - dmason



JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** Carter Peak Federal 13-1  
**API Well Number:** 43041500020000  
**Lease Number:** UTU-74853  
**Surface Owner:** FEDERAL  
**Approval Date:** 6/18/2009

**Issued to:**

WOLVERINE GAS & OIL COMPANY OF UTAH, LLC, 1140 N. Centennial Park Dr., Richfield, UT 84701

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the NAVAJO Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter

section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

**Notification Requirements:**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

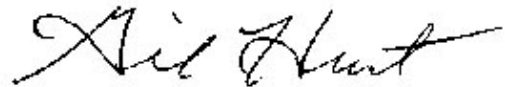
Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

**Reporting Requirements:**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**Approved By:**

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, cursive script.

Gil Hunt  
Associate Director, Oil & Gas

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Wolverine Gas and Oil Company of Utah, LLC  
Address: 55 Campau NW  
city Grand Rapids,  
state Mi zip 49503

Operator Account Number: N 1655  
Phone Number: (616) 458-1150

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304150002	Carter Peak Federal 13-1		SWSW	13	22S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17370	9/9/2009			9/21/09	
Comments: <u>NAVA</u> <u>B HL = SWSW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

**RECEIVED**

**SEP 10 2009**

Helene Bardolph

Name (Please Print)

*Helene Bardolph*

Signature

Engineering Assistant

Title

9/10/2009

Date

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74853																														
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>																														
<b>2. NAME OF OPERATOR:</b> WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		<b>7.UNIT or CA AGREEMENT NAME:</b> WOLVERINE																														
<b>3. ADDRESS OF OPERATOR:</b> One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503		<b>8. WELL NAME and NUMBER:</b> Carter Peak Federal 13-1																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0852 FSL 1329 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 13 Township: 22.0S Range: 01.0W Meridian: S		<b>9. API NUMBER:</b> 43041500020000																														
<b>PHONE NUMBER:</b> 616 458-1150 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT																														
<b>COUNTY:</b> SEVIER		<b>STATE:</b> UTAH																														
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>																																
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 10/3/2009  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER:  </td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:																														
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>																																
<div style="border: 1px solid black; padding: 10px; margin: 0 auto; width: 80%;"> <p style="margin: 0;">Accepted by the</p> <p style="margin: 0;">Utah Division of</p> <p style="margin: 0;">Oil, Gas and Mining</p> <p style="margin: 0; font-size: 1.5em; font-weight: bold;">FOR RECORD ONLY</p> <p style="margin: 0; font-style: italic;">October 07, 2009</p> </div>																																
<b>NAME (PLEASE PRINT)</b> Paul Spiering	<b>PHONE NUMBER</b> 435 896-1943	<b>TITLE</b> District Land Manager																														
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/7/2009																														

T22S R01W S-13 43-041-50002

**From:** "Wolverine Exploration Rig" <wolvexpl@drillmail.net>  
**To:** "Arlan Burchett" <Arlan.Burchett@Halliburton.com>, "Carpenter, Melinda" ...  
**Date:** 10/21/2009 7:41 AM  
**Subject:** Carter Peak Federal 13-1 Update

Status @ 0730: Drilling @ 6884'

CONFIDENTIAL

Chuck Emerson

Drilling Supervisor

Wolverine Gas & Oil Co.

Carter Peak Federal 13-1

Rig (970) 812-0022

Cell (970) 381-6233

Fax (435) 304-1222

wolvexpl@drillmail.net

RECEIVED

OCT 21 2009

DIV. OF OIL, GAS & MINING

**Carol Daniels - Carter Peak Federal 13-1** *T 225 ROW 5-13 4304150002*

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**From:** "Wolverine Exploration Rig"

**To:** "Arlan Burchett" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dieste, Bobby" , "Doucet, Dustin" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Paul Spiering" , "Revert, Scott" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 10/22/2009 7:16 AM

**Subject:** Carter Peak Federal 13-1

---

Status @ 0700hrs: PU Bit #4 & BHA #6 to TIH @ 7200'.

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)



Carol Daniels - Carte Peak Federal 13-1 Update *T99S R01W S-13 43-041-50002*

**From:** "Wolverine Exploration Rig"  
**To:** "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dieste, Bobby" , "Doucet, Dustin" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Paul Spiering" , "Revert, Scott" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"  
**Date:** 10/23/2009 8:25 AM  
**Subject:** Carte Peak Federal 13-1 Update

---

Status @ 0830hrs: Drilling (Sliding) @ 7363'.

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

RECEIVED

OCT 23 2009

DIV. OF OIL, GAS & MINING

**Carol Daniels - Carter Peak Federal 13-1 Update** *T225 R01WS-13 43-041-50002*

---

**From:** "Wolverine Exploration Rig"  
**To:** "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dieste, Bobby" , "Doucet, Dustin" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"  
**Date:** 10/24/2009 8:35 AM  
**Subject:** Carter Peak Federal 13-1 Update

---

Status @ 0830hrs: Drilling @ 7660'

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

RECEIVED

OCT 24 2009

DIV. OF OIL, GAS & MINING

**Carol Daniels - Carter Peak Federal 13-1 Update** *T22S R01W 5-13 43-041-50002*

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**From:** "Wolverine Exploration Rig"

**To:** "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dieste, Bobby" , "Don Graves" , "Doucet, Dustin" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 10/25/2009 9:09 AM

**Subject:** Carter Peak Federal 13-1 Update

---

Status @ 0600: Drilling @ 7915'

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

RECEIVED

OCT 25 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Carter Peak Federal 13-1

T225 ROW 5-13 43-041-50002

**From:** "Wolverine Exploration Rig"

**To:** "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dieste, Bobby" , "Don Graves" , "Doucet, Dustin" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 10/26/2009 7:40 AM

**Subject:** Carter Peak Federal 13-1

Status @ 0730hrs: Drilling @ 8103'.

Chuck Emerson

**Drilling Supervisor**

Wolverine Gas & Oil Co.

Carter Peak Federal 13-1

Rig (970) 812-0022

Cell (970) 381-6233

Fax (435) 304-1222

wolvexpl@drillmail.net

RECEIVED

OCT 26 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Carter Peak Fed 13-1 Update *T225 R01W 5-13 43-041-50002*

---

**From:** "Wolverine Exploration Rig"

**To:** "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dieste, Bobby" , "Don Graves" , "Doucet, Dustin" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 10/27/2009 7:09 AM

**Subject:** Carter Peak Fed 13-1 Update

---

Status @ 0700hrs: Drilling in Navajo @ 8118'

Chuck Emerson

**Drilling Supervisor**

Wolverine Gas & Oil Co.

Carter Peak Federal 13-1

Rig (970) 812-0022

Cell (970) 381-6233

Fax (435) 304-1222

wolvexpl@drillmail.net

RECEIVED

OCT 27 2009

DIV. OF OIL, GAS & MINING

**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1 Update****T795 RO1W S-13 43 041 5 0002****From:** "Wolverine Exploration Rig"**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "Dieste, Bobby" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"**Date:** 10/28/2009 8:00 PM**Subject:** Carter Peak Federal 13-1 Update

10/28/2009 7:57 PM

Depth 8,275'. TIH w/NB, TD has not been picked

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (720) 351-7470**  
**Fax (435) 304-1222**  
**wolvexpl@drillmail.net**

**RECEIVED****OCT 28 2009**

DIV. OF OIL, GAS &amp; MINING

**Carol Daniels - Carter Peak Federal 13-1 Update**

T225 R 01 W 5-13 43-041-50002

**From:** "Wolverine Exploration Rig"

**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "Dieste, Bobby" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 10/29/2009 7:57 AM

**Subject:** Carter Peak Federal 13-1 Update

10/29/2009 7:54 AM

Drilling at 8,345', TD has not been picked

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (720) 351-7470**  
**Fax (435) 304-1222**  
**wolvexpl@drillmail.net**

**RECEIVED**

**OCT 29 2009**

**DIV. OF OIL, GAS & MINING**

Carol Daniels - Carter Peak Federal 13-1 Update *T225 R01W S-13 43 04150002*

---

**From:** "Wolverine Exploration Rig"  
**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight, Randy" , , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Revert, Scott" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"  
**Date:** 10/29/2009 5:13 PM  
**Subject:** Carter Peak Federal 13-1 Update  
**Attachments:**

---

10/29/2009 5:08 PM

TD of 8,600' @ 17:00, plan to circulate, short trip, circulate and trip for log. logging possible in morning. This is not a call out, only information, subject to change.

**Bill Donovan**  
**Drilling Supervisor**  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (720) 351-7470  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

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OCT 29 2009

DIV. OF OIL, GAS & MINING



Carol Daniels - Carter Peak Federal 13-1 Update *T225 ROWS-13 4304150002*

---

**From:** "Wolverine Exploration Rig"  
**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" ,  
"Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,  
Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" ,  
"Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight,  
Randy" , , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Revert, Scott" , "Sparks,  
Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray " , "Vrona, John" , "Willis,  
Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"  
**Date:** 10/29/2009 7:54 PM  
**Subject:** Carter Peak Federal 13-1 Update

---

10/29/2009 7:50 PM

Start short trip.

Bill Donovan  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (720) 351-7470  
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OCT 29 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Carter Peak Federal 13-1 Update

T225 ROW 5-13 43-041-50002

**From:** "Wolverine Exploration Rig"**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "Dieste, Bobby" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Revert, Scott" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"**Date:** 10/29/2009 11:48 AM**Subject:** Carter Peak Federal 13-1 Update

10/29/2009 11:44 AM

Drilling @ 8,444', FPH 40-50. TD Has been picked 8,600'. Expect to finish drilling this afternoon

**Bill Donovan****Drilling Supervisor****Wolverine Gas & Oil Co.****Carter Peak Federal 13-1****Rig (970) 812-0022****Cell (720) 351-7470****Fax (435) 304-1222****wolvexpl@drillmail.net**

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DIV. OF OIL, GAS &amp; MINING

**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1 Update** *T 225 1901W 5-13 43-041-50002*

**From:** "Wolverine Exploration Rig"  
**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" ,  
"Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,  
Dustin" , "Gerrard, Jason" , "Graves, Don" , "Harwick, Emily" , "Hendricks, Marvin" ,  
"Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight,  
Randy" , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Revert, Scott" , "Sparks,  
Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray " , "Vrona, John" , "Willis,  
Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"  
**Date:** 10/29/2009 3:45 PM  
**Subject:** Carter Peak Federal 13-1 Update

10/29/2009 3:41 PM

Drilling @ 8,563' FPH 30, TD is 8,600'

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
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Carol Daniels - Carter Peak Federal 13-1Update

T 225 R01W S-13 43.04150002

**From:** "Wolverine Exploration Rig"  
**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" ,  
"Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,  
Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" ,  
"Holt, Jon" , "Howard, Art" , "Irons, Charlie" , "Jones, Mark" , "Kleb, Richard" , "Knight,  
Randy" , , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Revert, Scott" , "Sparks,  
Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray " , "Vrona, John" , "Willis,  
Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"  
**Date:** 10/30/2009 8:11 AM  
**Subject:** Carter Peak Federal 13-1Update

10/30/2009 8:08 AM

Tripping BHA, will lay down shock sub, directional tools and motor. Halliburton open hole logging to be on location before noon.

Bill Donovan  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
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OCT 30 2009

DIV. OF OIL, GAS & MINING

**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1** *T22S R01W S-13 4304150002***From:** "Wolverine Exploration Rig"**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Hutcinson, Clayton" , "Irons, Charlie" , "Jones, Mark" , "Kallen, Kimzey" , "Kleb, Richard" , "Knight, Randy" , "Manski, Alexis" , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Sorenson, Debbie" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Ufford, Aubree" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"**Date:** 10/31/2009 7:57 AM**Subject:** Carter Peak Federal 13-1

10/31/2009 7:53 AM

Continue open hole logging. No decision has been made on running casing.

**Bill Donovan****Drilling Supervisor****Wolverine Gas & Oil Co.****Carter Peak Federal 13-1****Rig (970) 812-0022****Cell (720) 351-7470****Fax (435) 304-1222****wolvexpl@drillmail.net****RECEIVED****OCT 31 2009****DIV. OF OIL, GAS & MINING**

**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1 Update** *T225 R01W S-13 4304150002***From:** "Wolverine Exploration Rig"**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Hutcinson, Clayton" , "Irons, Charlie" , "Jones, Mark" , "Kallen, Kimzey" , "Kleb, Richard" , "Knight, Randy" , "Manski, Alexis" , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Sorenson, Debbie" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Ufford, Aubree" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"**Date:** 10/31/2009 3:52 PM**Subject:** Carter Peak Federal 13-1 Update

10/31/2009 3:49 PM

Cutting sidewall cores. 50% more to cut

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (720) 351-7470**  
**Fax (435) 304-1222**  
**wolvexpl@drillmail.net**

**RECEIVED****OCT 31 2009****DIV. OF OIL, GAS & MINING**

Carol Daniels - Carter Peak Federal 13-1

T225 R01W S-13 43 04150002

**From:** "Wolverine Exploration Rig"**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Hutcinson, Clayton" , "Irons, Charlie" , "Jones, Mark" , "Kallen, Kimzey" , "Kleb, Richard" , "Knight, Randy" , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Sorenson, Debbie" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Ufford, Aubree" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"**Date:** 10/31/2009 7:40 PM**Subject:** Carter Peak Federal 13-1

10/31/2009 7:37 PM

Sidewall coring.

Bill Donovan

Drilling Supervisor

Wolverine Gas &amp; Oil Co.

Carter Peak Federal 13-1

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OCT 31 2009

DIV. OF OIL, GAS &amp; MINING

Carol Daniels - Carter Peak Federal 13-1 Update T22S R01W S-13 4304150002

**From:** "Wolverine Exploration Rig"

**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Hutcinson, Clayton" , "Irons, Charlie" , "Jones, Mark" , "Kallen, Kimzey" , "Kleb, Richard" , "Knight, Randy" , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Sorenson, Debbie" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Ufford, Aubree" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 11/1/2009 4:29 AM

**Subject:** Carter Peak Federal 13-1 Update

11/1/2009 4:26 AM

Logging. No decision has been made on casing

Bill Donovan  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
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**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1***T 225 R01W S-13 43 041 50002***From:** "Wolverine Exploration Rig"**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Hutcinson, Clayton" , "Irons, Charlie" , "Jones, Mark" , "Kallen, Kimzey" , "Kleb, Richard" , "Knight, Randy" , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Sorenson, Debbie" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Ufford, Aubree" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"**Date:** 11/1/2009 3:43 PM**Subject:** Carter Peak Federal 13-1

11/1/2009 3:34 PM

A casing decision will be made on Monday.

**Bill Donovan****Drilling Supervisor****Wolverine Gas & Oil Co.****Carter Peak Federal 13-1****Rig (970) 812-0022****Cell (720) 351-7470****Fax (435) 304-1222****wolvexpl@drillmail.net****RECEIVED****NOV 01 2009****DIV. OF OIL, GAS & MINING**

Carol Daniels - Carter Peak Federal 13-1 update *Tags ROW S-13 4304150002*

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**From:** "Wolverine Exploration Rig"

**To:** "Allen, Geoff" , "Arlan Burchett" , "Brent, Steve" , "Cecil, Tom" , "Childers, Charlie" , "Chris, Dellit" , "Daniels, Carol" , "De la Torre, Juan C" , "Doucet, Dustin" , "Gerrard, Jason" , "Graves, Don" , "Hartwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Howard, Art" , "Hutcinson, Clayton" , "Irons, Charlie" , "Jones, Mark" , "Kallen, Kimzey" , "Kleb, Richard" , "Knight, Randy" , , "McKee, Al" , "Moulton, Shawn" , "Novotny Justin" , "Sorenson, Debbie" , "Sparks, Jim" , "Spiering, Paul" , "Treybig, Jerry" , "Troy Murray" , "Ufford, Aubree" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 11/2/2009 6:10 AM

**Subject:** Carter Peak Federal 13-1 update

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11/2/2009 4:55 AM

Casing will not be run at this time.

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (720) 351-7470**  
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**wolvexpl@drillmail.net**

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NOV 02 2009

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Page 1 of 1

**Carol Daniels - FW: Carter Peak Federal 13-1 Update** T72S ROILWS-13 43-041-50002

**From:** "Wolverine Exploration Rig"  
**To:** "Edward Higuera" , "Jack Magill" , , "Donovan, Bill" , "Emerson, Chuck" , "Zupan, Tom"  
**Date:** 11/4/2009 4:51 AM  
**Subject:** FW: Carter Peak Federal 13-1 Update  
**CC:** "Daniels, Carol" , "Doucet, Dustin" , "Hendricks, Marvin" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Medina, Rachael" , "Willis, Walton" , "Willis, Walton Home"

Status Update @ 0445hrs: Circulated approx 40bbl cement colored drilling mud then cleaned up. POOH to 5,000' to Reset Plug # 2.

Status @ 0400hrs: TIH to tag Plug # 2 @ 5,000'. TIH to 5,512' & Did NOT tag any cement. Break circulation. Slight (7bbl) losses.

POOH to Reset Plug # 2. Will Pump 140sks (230') w/ Reduced D013 (Retarder) & D65 (Dispersant).

**Chuck Emerson**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (970) 381-6233**  
**Fax (435) 304-1222**  
**wolvexpl@drillmail.net**

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**NOV 04 2009**

**DIV. OF OIL, GAS & MINING**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74853
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b> WOLVERINE
<b>3. ADDRESS OF OPERATOR:</b> One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503		<b>8. WELL NAME and NUMBER:</b> Carter Peak Federal 13-1
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0852 FSL 1329 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 13 Township: 22.0S Range: 01.0W Meridian: S		<b>9. API NUMBER:</b> 43041500020000
<b>PHONE NUMBER:</b> 616 458-1150 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>COUNTY:</b> SEVIER		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/6/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  Please see attached final drilling report.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> November 19, 2009		
<b>NAME (PLEASE PRINT)</b> Helene Bardolph	<b>PHONE NUMBER</b> 616 458-1150	<b>TITLE</b> Engineering Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/18/2009	

6 November 2009

Mr. Marvin Hendricks  
Petroleum Engineer  
Bureau of Land Management  
Price Field Office  
Price, Utah

Subject: Wolverine Gas & Oil Corp.  
Carter Peak Federal 13-1  
SE¼ SW¼ Sec 13-T22S-R1W  
Sevier County, Utah.

Dear Mr. Hendricks:

The following are the operations reports for the seven day period 31 October 2009 through 6 November 2009. The report dates shown are the ending date and the reported operations cover the period from 06:00 hrs the previous day to 06:00 hrs of the indicated report date.

31 October 2009

Depth 8600' MD, csg shoe at 2055' DF. TOH, LD tools, log w/ Halliburton. MW – 10.45, Vis. – 51, FL – 4.3. Surveys: None.

1 November 2009

Depth 8600' MD, csg shoe at 2055' DF. Electric logs w/ Halliburton, sidewall cores, Baker Atlas seismic survey. MW – 10.45, Vis. – 53, FL – 4.3. Surveys: None.

2 November 2009

Depth 8600' DF, csg shoe at 2055' DF. Seismic survey, LD SWDP & tools, GIH open ended, C&C, WOO. MW – 10.4, Vis. – 44.5, FL – 4.3. Surveys: None.

3 November 2009

Depth 8600' DF, csg shoe at 2055' DF. WOO, POOH to 8063' MD, pump Schlumberger cement plug calculated to cover 7480 to 8061 ft MD. MW – 10.4, Vis. – 45, FL – 4.3. Surveys: None.

4 November 2009

Depth 8600' DF, csg shoe at 2055' DF. POOH to 5237, WOC, GIH, tag plug @ 7719' MD, plug coverage 7719 to 8061 ft MD, POOH to 5019' MD, pump cement plug #2, POOH, LD SWDP, POOH, LD wear bushing, GIH to 2760' MD, WOC, GIH to 5000', did not tag plug, C&C, POOH to 4950' MD. MW – 10.5, Vis. – 44, FL – 4.3. Surveys: None.

5 November 2009

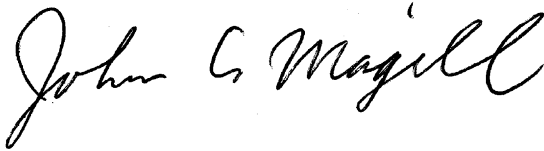
Depth 8600' DF, csg shoe at 2055' DF. Pump cement plug #3, POOH to 2500' MD, WOC, tag cmt at 4751' MD, plug coverage 4751' to 4950' MD, POOH laying down DP

to 2155', pump cement plug #4, POOH 5 stands, circulate and WOC. MW – 10.5, Vis. – 44, FL – 4.3. Surveys: None.

6 November 2009

Depth 8600' MD, csg. shoe at 2055' DF. WOC, tag plug at 1985' MD, plug coverage 1985' to 2155' MD, POOH to 60' MD, pump cement plug #5, cement standing at bradenhead, LDDP in mouse hole, jet & clean tanks, ND BOP stack, rig released 1800 hrs, 5 Nov. 2009, RDMORT, final report. MW – 10.5, Vis. – 44, FL – 4.3. Surveys: None.

Sincerely:

A handwritten signature in black ink that reads "John C. Magill". The signature is written in a cursive, flowing style.

John C. Magill, P.E.  
Drilling Engineering and Operations Consultant  
Wolverine Gas & Oil Corporation

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

**CONFIDENTIAL**FORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. UTU-74853							
b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input checked="" type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other _____		6. If Indian, Allottee or Tribe Name							
2. Name of Operator <b>Wolverine Gas and Oil of Utah, LLC</b>		7. Unit or CA Agreement Name and No. <b>Wolverine Federal Unit</b>							
3. Address <b>55 Campau NW, Grand Rapids, MI 49503</b>		8. Lease Name and Well No. <b>Carter Peak Federal 13-1</b>							
3a. Phone No. (include area code) <b>616-458-1150</b>		9. AFI Well No. <b>43041500020000</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface <b>852' FSL, 1329' FWL, Sec 13, T22S, R1W</b> At top prod. interval reported below <b>Sec 13, T22S, R1W</b> At total depth <b>Sec 13, T22S, R1W 1293 fsl 1043 FWL</b>		10. Field and Pool, or Exploratory <b>Exploratory</b>							
14. Date Spudded <b>10/03/2009</b>		11. Sec., T., R., M., on Block and Survey or Area <b>13, 22S, 1W, SLC</b>							
15. Date T.D. Reached <b>10/30/2009</b>		12. County or Parish <b>Sevier</b>							
16. Date Completed <b>11/6/2009</b> <input checked="" type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod.		13. State <b>CO</b>							
17. Elevations (DF, RKB, RT, GL)* <b>KB: 5428.5</b>									
18. Total Depth: MD <b>8600</b> TVD <b>8573</b>		19. Plug Back T.D.: MD <b>4</b> TVD <b>4</b>							
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>BVP, DLL, SDL/DSN, Micro Imager, Sonic</b>							
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26	16	Conduct	0	120		450 Class G		surface CIR	
12.25	9 5/8	36#	0	2055		290 TX 1			
						215 Class G		70' CIR	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
NA									
25. Producing Intervals									
Formation		Top	Bottom	26. Perforation Record					
				Perforated Interval	Size	No. Holes	Perf. Status		
A) NA									
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
NA									
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

No measurable gas

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Navajo	8313	8600		Arapien Twin Creek Navajo	26 7699 8313

32. Additional remarks (include plugging procedure):

- see Plug and Abandon Sundry notice for additional details

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33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)   
 ☒ Geologic Report   
 ☐ DST Report   
 ☒ Directional Survey  
☒ Sundry Notice for plugging and cement verification   
☐ Core Analysis   
☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Edward A. Higuera

Title Manager - Development

Signature

Date

12/21/2009

12/21/2009

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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## INSTRUCTIONS

**GENERAL:** This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

**ITEM 17:** Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**ITEM 23:** Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

## PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

**ROUTINE USES:** (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

## BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 60 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), MS 401 LS, 1849 C Street, N.W., Washington, D.C. 20240.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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FORM APPROVED  
DWS No. 100-000  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator **Wolverine Gas and Oil of Utah, LLC**

3a. Address  
**55 Campau NW, Grand Rapids, MI 49503**

3b. Phone No. (include area code)  
**616-458-1150**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SHL: 852' FSL, 1329' FWL, Sec 13, T22S, R1W**

5. Lease Serial No.  
**UTU-74853**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
**Wolverine Federal Unit**

8. Well Name and No.  
**Carter Peak Federal 13-1**

9. API Well No.  
**43041500020000**

10. Field and Pool, or Exploratory Area  
**Exploratory**

11. County or Parish, State  
**Sevier, UT**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Carter Peak Federal 13-1 was plugged and abandoned as follows:

- Plug #1: from 8061' to 7719' (witnessed by Walton Willis BLM and OK)
- Plug #2: failed (first try)
- Reset Plug #2: 4751'-4950'
- Plug #3: 1985-2251'
- Surface Plug #4: 0-60'

(Please see attached Plug and Abandon report for details)

- A 1/4" steel plate was welded to cap with inscription as follows:

Wolverine Gas & Oil  
Carter Peak Federal 13-1  
API 43041500020000  
S13, T22S, R1W, Sevier Co., Utah

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14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Edward A. Higuera**

Title **Manager - Development**

Signature

Date

**12/21/2009**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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# ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ  
Software System: WellArchitect®2.0

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## REFERENCE WELLPATH IDENTIFICATION

Operator WOLVERINE GAS & OIL COMPANY  
Area UTAH  
Field SEVIER COUNTY  
Facility SEC.13-T22S-R1W  
Slot Slot #01 Carter Peak Federal 13-1 852'FSL & 1329'FWL  
Well Carter Peak Federal 13-1  
Wellbore Carter Peak Federal 13-1  
Wellpath Carter Peak Federal 13-1\_awp  
Sidetrack (none)

## REPORT SETUP INFORMATION

Projection : NAD83 / Lambert Utah State Planes, Central Zone (4302), US feet  
North Refe TRUE  
Scale 1.00003  
Convergen 0.23° West  
Software S WellArchitect®  
User Balldoun  
Report Ger 10/29/2009 at 6:26:54 PM  
DataBase/ WellArchitectDB/ev01.xml

WELLPATH	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude
Slot Locati	0	0	1537058	6764184	38°53'19.4"	111°51'47.146"W
Facility Ref			1537058	6764184	38°53'19.4"	111°51'47.146"W
Field Refer			1516134	6732217	38°48'02.6"	111°56'09.781"W

## WELLPATH DATUM

Calculation Minimum curvature  
Horizontal Slot  
Vertical Re Rig on Slot #01 Carter Peak Federal 13-1 (RT)  
MD Refere Rig on Slot #01 Carter Peak Federal 13-1 (RT)  
Field Vertic Mean Sea Level

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Rig on Slot 5428.00ft

Rig on Slot 5428.00ft

Facility Ver 0.00ft

Section Ori 0.00ft

Section Ori 0.00ft

Section Azi 328.00°

GL to Mean Sea Level 5406'

RKB 22'

WELL PATH DATA Wellbore: Carter Peak Federal 13-1 Wellpath: Carter Peak Federal 13-1\_awp † = interpolated/extrapolated station

	MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
†	0	0	0	0	0	0	0	0
	22	0	0	22	0	0	0	0
	304	1.14	0	303.98	2.38	2.81	0	0.4
	399	0.09	0	398.97	3.24	3.83	0	1.11
	492	0.18	0	491.97	3.43	4.04	0	0.1
	585	0.26	0	584.97	3.73	4.4	0	0.09
	684	0.18	0	683.97	4.05	4.78	0	0.08
	779	0.26	0	778.97	4.36	5.15	0	0.08
	874	0.09	0	873.97	4.61	5.44	0	0.18
	964	0.35	0	963.97	4.9	5.78	0	0.29
	1072	0.18	0	1071.97	5.33	6.28	0	0.16
	1167	0.09	0	1166.97	5.52	6.51	0	0.09
	1262	0.09	0	1261.97	5.64	6.65	0	0
	1357	0.09	0	1356.97	5.77	6.8	0	0
	1453	0.09	0	1452.97	5.9	6.95	0	0
	1548	0.09	0	1547.97	6.02	7.1	0	0
	1643	0.09	0	1642.97	6.15	7.25	0	0
	1739	0.18	0	1738.97	6.34	7.48	0	0.09
	1834	0.35	0	1833.97	6.72	7.92	0	0.18
	1929	0.18	0	1928.97	7.09	8.36	0	0.18
	2019	0.18	0	2018.97	7.33	8.64	0	0
	2135	0.88	336.82	2134.96	8.36	9.64	-0.35	0.62
	2231	2.86	323.41	2230.9	11.48	12.24	-2.07	2.1
	2326	3.69	332.87	2325.75	16.89	16.87	-4.88	1.04
	2421	5.14	334.71	2420.47	24.16	23.44	-8.09	1.53
	2517	6.28	331.78	2515.99	33.67	31.95	-12.41	1.23

2613	5.6	328.48	2611.47	43.59	40.57	-17.34	0.79
2708	5.88	330.59	2706	53.09	48.76	-22.15	0.37
2803	5.81	322.62	2800.5	62.74	56.82	-27.46	0.86
2898	5.53	326.63	2895.04	72.1	64.46	-32.9	0.51
2994	5.8	326.67	2990.57	81.58	72.38	-38.11	0.28
3089	5.73	330.63	3085.09	91.11	80.52	-43.07	0.43
3184	5.8	330.07	3179.61	100.65	88.82	-47.79	0.09
3280	6.2	333.96	3275.08	110.65	97.68	-52.49	0.59
3375	6.3	331.99	3369.52	120.95	106.89	-57.19	0.25
3470	5.75	317.38	3464	130.83	114.99	-62.86	1.71
3566	5.82	303.77	3559.51	140	121.24	-70.16	1.43
3661	6.05	298.66	3654.01	148.75	126.32	-78.56	0.61
3757	5.28	308.18	3749.54	157.32	131.47	-86.47	1.26
3851	5.96	307.81	3843.09	165.97	137.14	-93.73	0.72
3947	5.83	314.17	3938.58	175.38	143.59	-101.16	0.69
4041	5.94	323.56	4032.09	184.86	150.83	-107.47	1.03
4137	5.81	322.8	4127.58	194.66	158.7	-113.36	0.16
4175	5.83	324.64	4165.39	198.5	161.8	-115.64	0.49
4206	5.66	328.83	4196.23	201.6	164.4	-117.34	1.46
4230	5.6	332.18	4220.12	203.95	166.44	-118.5	1.39
4325	6.39	338.21	4314.6	213.78	175.45	-122.63	1.06
4420	5.86	338.71	4409.05	223.74	184.88	-126.35	0.56
4515	6.11	327.07	4503.54	233.56	193.64	-130.86	1.3
4610	6.16	333.28	4598	243.69	202.44	-135.9	0.7
4706	6.11	330.99	4693.45	253.93	211.51	-140.7	0.26
4801	6.01	326.55	4787.92	263.95	220.08	-145.89	0.5
4897	6.18	333	4883.37	274.12	228.88	-151.01	0.73
4992	6.3	329.41	4977.81	284.42	237.92	-155.98	0.43
5088	6.1	325.08	5073.25	294.78	246.64	-161.58	0.53
5183	6.18	332.38	5167.71	304.92	255.31	-166.84	0.83
5278	6.13	342.89	5262.16	314.92	264.68	-170.7	1.19
5374	5.89	340.35	5357.64	324.69	274.22	-173.87	0.37
5469	6.31	347.38	5452.1	334.38	283.91	-176.65	0.9
5565	6.5	341.64	5547.5	344.63	294.21	-179.51	0.7
5660	6.45	337.21	5641.89	355.13	304.24	-183.27	0.53
5755	6.17	335.01	5736.32	365.46	313.78	-187.5	0.39
5849	6.14	325.7	5829.78	375.5	322.51	-192.46	1.06

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					N	E	
5944	5.54	337.91	5924.29	385.09	330.96	-197.05	1.45
6039	6.92	325.46	6018.73	395.33	339.92	-202.02	2.02
6134	6.26	320.91	6113.1	406.18	348.66	-208.53	0.89
6230	6.11	319.05	6208.54	416.42	356.58	-215.18	0.26
6325	6.13	324.04	6303	426.48	364.5	-221.47	0.56
6420	6.35	325.9	6397.44	436.79	372.96	-227.4	0.31
6516	6.03	317.9	6492.88	447.06	381.1	-233.75	0.96
6611	6.09	330.82	6587.36	457.01	389.2	-239.55	1.43
6706	6.13	341.61	6681.82	466.97	398.41	-243.61	1.21
6802	6.16	328.17	6777.27	477.1	407.65	-247.95	1.5
6898	6.29	324.68	6872.71	487.5	416.32	-253.7	0.42
6993	6.21	319.4	6967.14	497.78	424.47	-260.06	0.61
7088	6	309.15	7061.61	507.56	431.5	-267.25	1.17
7183	4.64	295.41	7156.2	515.49	436.29	-274.57	1.95
7278	2.91	281.16	7250.99	520.38	438.4	-280.41	2.06
7373	1.21	260.39	7345.93	522.41	438.7	-283.76	1.93
7466	0.72	254.68	7438.92	522.96	438.39	-285.3	0.54
7563	0.15	173.03	7535.91	523.02	438.1	-285.87	0.74
7658	0.13	110.75	7630.91	522.82	437.94	-285.75	0.15
7753	0.13	315.89	7725.91	522.84	437.98	-285.73	0.27
7848	0.2	307.99	7820.91	523.1	438.16	-285.93	0.08
7943	0.18	354.35	7915.91	523.39	438.41	-286.08	0.16
8038	0.07	228.97	8010.91	523.51	438.52	-286.14	0.24
8124	0.13	317.48	8096.91	523.6	438.55	-286.24	0.17
8220	0.31	358.37	8192.91	523.93	438.89	-286.32	0.24
8310	0.53	0	8282.91	524.49	439.55	-286.33	0.24
8406	0.35	0	8378.91	525.12	440.29	-286.33	0.19
8501	0.35	0	8473.9	525.61	440.87	-286.33	0
8573	0.18	0	8545.9	525.89	441.2	-286.33	0.24

WELLPATH COMPOSITION Ref Wellbore: Carter Peak Federal 13-1 Ref Wellpath: Carter Peak Federal 13-1\_awp

Log Name/ Start MD End MD Pos Unc Model

	[ft]	[ft]	
12 1/4" Hol	22		2019 VertiTrak
8 3/4" Hole	2019		8573 VertiTrak

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Post Job Report

Customer: Wolverine Exploration  
Job type: Plug and abandon  
Completed: November 5th 2009

Well: Carter Peak Federal 13-1  
Rig: Patterson 304

November 3rd, Plug # 1

Fluid	Density [ppg]	Volume [bbl]	Sacks [#]	Pressure avg [psi]	Rate avg [bpm]	Time: start/stop		Time [minutes]	Plug Depths	Cement System
Mud	10.8	115	n/a	289	5	2:21:33	2:44:49	23	8,061 to 7,719'	Class G Cement Systems .2% Fluid Loss, .2% AntiFoam, .2% Dispersant, .35% Retarder, .25lb/sk Loss Circulation Yield : 1.16ft3/sk Mix Fluid : 5.092 gal/sk
Water	8.33	20	n/a	299	5.3	2:45:04	2:48:53	3.5	(344')	
MudPUSH	13.1	10	n/a	252	3	2:48:58	3:00:19	11		
Cement	15.8	56	270	247	4	3:01:56	3:14:00	12		
MudPUSH	13.1	2.5	n/a	40	1.5	3:15:49	3:20:19	4		
Water	8.33	4	n/a	40	2.5	3:21:53	3:23:24	2.5		
Mud	10.8	108	n/a	75	3.5	3:26:49	3:56:19	29		

November 3rd, Plug # 2, first try

Fluid	Density [ppg]	Volume [bbl]	Sacks [#]	Pressure avg [psi]	Rate avg [bpm]	Time: start/stop		Time [minutes]	Plug Depths	Cement System
Mud	10.8	99	n/a	252	5	16:09:26	16:29:26	20	Failed	Class G Cement .2% AntiFoam, .2% Dispersant, .2% Retarder, .25lb/sk Loss Circulation Yield : 1.16ft3/sk Mix Fluid : 5.092 gal/sk
Water	8.33	17	n/a	206	2.8	16:29:26	16:35:26	6		
MudPUSH	13.1	10.5	n/a	211	2.4	16:35:26	16:39:45	4.3		
Cement	15.8	14.5	70.2	120	2.2	16:48:42	16:55:26	6.7		
MudPUSH	13.1	4	n/a	53	1.8	16:58:26	17:00:36	2.1		
Water	8.33	6.6	n/a	68	3.8	17:00:36	17:02:19	1.7		
Mud	10.8	68	n/a	99	4.3	17:04:26	17:19:56	15.5		

November 4th, Plug # 2, second try

Fluid	Density [ppg]	Volume [bbl]	Sacks [#]	Pressure avg [psi]	Rate avg [bpm]	Time: start/stop		Time [minutes]	Plug Depths	Cement System
Water	8.33	20.2	n/a	236	4.7	5:30:33	5:34:48	4.2	4,751' to 4,950'	Class G Cement .2% AntiFoam, .2% Dispersant, .2% Retarder, .25lb/sk Loss Circulation Yield : 1.16ft3/sk Mix Fluid : 5.092 gal/sk
MudPUSH	13.1	10.5	n/a	190	2.7	5:37:33	5:41:27	3.9	(199')	
Cement	15.8	31.8	154	196	4.6	5:44:33	5:51:28	6.9		
MudPUSH	13.1	3	n/a	63	3	5:54:03	5:55:03	1		
Water	8.33	8.9	n/a	44	3.9	5:56:03	5:58:17	2.2		
Mud	10.8	64.2	n/a	87	4.2	5:58:17	6:13:33	15.2		

November 5th, Plug # 3

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Fluid	Density [ppg]	Volume [bbl]	Sacks [#]	Pressure avg [psi]	Rate avg [bpm]	Time: start/stop		Time [minutes]	Plug Depths	Cement System
Water	8.33	20	n/a	160	4.2	0:56:20	1:01:06	4.7	1,985' to 2,251'	Class G Cement 1.25% Calcium chloride .2% AntiFoam, .2% Retarder, .25lb/sk Loss Circulation <b>Yield : 1.16ft3/sk Mix Fluid : 5.092 gal/sk</b>
MudPUSH	13.1	6.3	n/a	183	2.5	1:04:50	1:07:50	2.5	(266')	
Cement	15.8	27.2	131.6	153	4	1:07:20	1:14:08	6.8		
Water	8.33	11.8	n/a	45	4.3	1:14:08	1:16:50	2.7		
Mud	10.8	22	n/a	57	4.2	1:16:50	1:22:05	5.25		

November 5th, Plug # 4

Fluid	Density [ppg]	Volume [bbl]	Sacks [#]	Pressure avg [psi]	Rate avg [bpm]	Time: start/stop		Time [minutes]	Plug Depths	Cement System
Water	8.33	5	n/a			7:43:00			0' to 60'	Class G Cement 1.25% Calcium chloride .2% AntiFoam, .2% Retarder, .25lb/sk Loss Circulation <b>Yield : 1.16ft3/sk Mix Fluid : 5.092 gal/sk</b>
Cement	15.8	8	38.7						(60')	
Mud	10.8	5	n/a							

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# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:

3160

UTU80800X

(UT922100)

**JUN 26 2012**

*Carter Peak Feed 13-1*  
*22S 1W 13*

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JUN 28 2012

DIV OF OIL, GAS & MINING

Mr. Richard Moritz  
One Riverfront Plaza  
55 Campau, N.W.  
Grand Rapids, MI 49503-2616

Re: Automatic Contraction  
Wolverine Unit  
Sanpete & Sevier Counties, Utah

Dear Mr. Moritz:

Your letter of June 20, 2012, describes the lands automatically eliminated effective March 16, 2012, from the Wolverine Unit Area, Sanpete & Sevier Counties, Utah, pursuant to Section 2(e) of the unit agreement and requests our concurrence. The lands you have described contain 68,062.645 acres, more or less, and contain all legal subdivisions, no parts of which are in the 7th Revision of the Navajo Participating Area "A" and the Initial Navajo 1 Formation – Carbon Sequestration a/k/a Providence Participating Area. As a result of the automatic elimination, the unit is reduced to 2,080.92 acres.

The following Federal Leases are entirely eliminated from the unit area.

UTU 73155	UTU 74851	UTU 78183	UTU 82687
UTU 73157	UTU 74852	UTU 80587	UTU 82690
UTU 73158	UTU 74853	UTU 80906	UTU 80951
UTU 73160	UTU 74854	UTU 80908	
UTU 73529	UTU 76453	UTU 80909	
UTU 73530	UTU 76454	UTU 80910	
UTU 74370	UTU 76455	UTU 80911	
UTU 74850	UTU 76456	UTU 80955	

The following Federal Leases are partially eliminated from the unit area.

UTU 73156	UTU 73528	UTU 80907
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## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: WOLVERINE GAS & OIL COMPANY OF UTAH

Well Name: CARTER PEAK FEDERAL 13-1

Api No: 43-041-50002 Lease Type: FEDERAL

Section 13 Township 22S Range 01W County SEVIER

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

### **SPUDDED:**

Date 09/09/2009

Time \_\_\_\_\_

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by CHUCK EMERSON

Telephone # (970) 381-6233

Date 09/09/2009 Signed CHD

**Carol Daniels - Carter Peak Federal 13-1 update**

T 225 R 01 W S-13 4B 04/50002

**From:** "Wolverine Exploration Rig"

**To:** "Brian Wright" , "Carpenter, Melinda" , "Cecil, Tom" , "Daniels, Carol" , "Dellit Chris" ,  
"Donovan, Bill" , "Dustin Doucet" , "Emerson, Chuck" , "Geoff Allen" , "Gerrard, Jason" ,  
"Harwick, Emily" , "Hendricks, Marvin" , "Higuera, Edward A." , "Holt, Jon" , "Irons,  
Charlie" , "Jones, Mark" , "Knight, Randy" , "Magill, Jack" , "McKee, Al" , "Novotny  
Justin" , "Paul Spiering" , "Stewart, Kenny" , "Treybig, Jerry" , "Troy Murray" , "Vrona,  
John" , "Willis, Walton" , "Willis, Walton Home" , "Zupan, Tom"

**Date:** 10/6/2009 4:07 PM

**Subject:** Carter Peak Federal 13-1 update

10/6/2009 3:52 PM

Sorry for the long delay even my computer is on the fritz. The current depth is 950'. Having difficulty maintaining circulation. Will work on circulation prior to drilling ahead.

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (720) 351-7470**  
**Fax (435) 304-1222**  
**wolvexpl@drillmail.net**

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OCT 06 2009

DIV. OF OIL, GAS & MINING

**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1 spud.**

T225 ROW S-13 43-041-50002

**From:** "Wolverine Exploration Rig"**To:** "Daniels, Carol" , "Donovan, Bill" , "Dustin Doucet" , "Emerson, Chuck" , "Hendricks, Marvin" , "Higuera, Edward A." , "Jones, Mark" , "Knight, Randy" , "Magill, Jack" , "McKee, Al" , "Medina, Rachael" , "Treybig, Jerry" , "Willis, Walton" , "Willis, Walton Home" , "Zupan, Tom"**Date:** 10/6/2009 4:32 PM**Subject:** Carter Peak Federal 13-1 spud.

Hi

The Wolverine Gas and Oil Company of Utah, LLC, Carter Peak Federal 13-1 was spudded at 22:10 10/3/09.

**Bill Donovan**  
**Drilling Supervisor**  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (720) 351-7470  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

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**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1 Update**

T225 R01W S-13 4304150002

**From:** "Wolverine Exploration Rig"**To:** "Brian Wright" , "Carpenter, Melinda" , "Cecil, Tom" , "Daniels, Carol" , "Dellit Chris" , "Donovan, Bill" , "Dustin Doucet" , "Emerson, Chuck" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Higuera, Edward A." , "Holt, Jon" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Magill, Jack" , "McKee, Al" , "Novotny Justin" , "Paul Spiering" , "Stewart, Kenny" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Zupan, Tom"**Date:** 10/8/2009 4:48 AM**Subject:** Carter Peak Federal 13-1 Update

10/8/2009 4:45 AM

Drilling @ 975'. ROP 6 FPH

**Bill Donovan****Drilling Supervisor****Wolverine Gas & Oil Co.****Carter Peak Federal 13-1****Rig (970) 812-0022****Cell (720) 351-7470****Fax (435) 304-1222****wolvexpl@drillmail.net****RECEIVED****OCT 08 2009****DIV. OF OIL, GAS & MINING**

**CONFIDENTIAL****Carol Daniels - Carter Peak Federal 13-1 Update**

T 225 RO1W5-13 43-04150002

**From:** "Wolverine Exploration Rig"**To:** "Arlan Burchett" , "Brian Wright" , "Carpenter, Melinda" , "Cecil, Tom" , "Daniels, Carol" , "Dellit Chris" , "Donovan, Bill" , "Dustin Doucet" , "Emerson, Chuck" , "Geoff Allen" , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Higuera, Edward A." , "Holt, Jon" , "Irons, Charlie" , "Jones, Mark" , "Kimzey Kallen" , "Knight, Randy" , "Magill, Jack" , "McKee, Al" , "Novotny Justin" , "Paul Spiering" , "Stewart, Kenny" , "Treybig, Jerry" , "Troy Murray" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Zupan, Tom"**Date:** 10/8/2009 12:33 PM**Subject:** Carter Peak Federal 13-1 Update

10/8/2009 12:30 PM

Tripping out of hole for new BHA. Fighting lost circulation

**Bill Donovan**  
**Drilling Supervisor**  
**Wolverine Gas & Oil Co.**  
**Carter Peak Federal 13-1**  
**Rig (970) 812-0022**  
**Cell (720) 351-7470**  
**Fax (435) 304-1222**  
**wolvexpl@drillmail.net**

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T225 ROW S13

43-041-50002

**From:** "Wolverine Exploration Rig" <wolvexpl@drillmail.net>  
**To:** "Daniels, Carol" <caroldaniels@utah.gov>, "Donovan, Bill" <donovan@pet...  
**Date:** 10/14/2009 12:36 PM  
**Subject:** Carter Peak Federal 13-1 FIT Test

We should be conducting FIT test in approx 2-3 hours.

Chuck Emerson

Drilling Supervisor

Wolverine Gas & Oil Co.

Carter Peak Federal 13-1

Rig (970) 812-0022

Cell (970) 381-6233

Fax (435) 304-1222

wolvexpl@drillmail.net

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**Carol Daniels - Carter Peak Fed 13-1 Update**

T22S ROW 5-13 43-041-50002

**From:** "Wolverine Exploration Rig"  
**To:** "Edward Higuera" , "Jack Magill" , , "Donovan, Bill" , "Emerson, Chuck" , "Zupan, Tom"  
**Date:** 10/14/2009 4:42 AM  
**Subject:** Carter Peak Fed 13-1 Update  
**CC:** "Daniels, Carol" , "Hendricks, Marvin" , "Jones, Mark" , "Medina, Rachael" , "Willis, Walton" , "Willis, Walton Home"

Status @ 0430hrs: BOP Testing Complete. NU Rotating Head & Flowline.

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

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**Carol Daniels - Carter Peak Fed 13-1 Update** *T22S R01W S-13 4304150002*

**From:** "Wolverine Exploration Rig"  
**To:** "Arlan Burchett", "Carpenter, Melinda", "Cecil, Tom", "Childers, Charlie", "Daniels, Carol", "Dellit Chris", "Dustin Doucet", "Geoff Allen", "Gerrard, Jason", "Harwick, Emily", "Hendricks, Marvin", "Holt, Jon", "Irons, Charlie", "Jones, Mark", "Knight, Randy", "McKee, Al", "Novotny Justin", "Paul Spiering", "Treybig, Jerry", "Vrona, John", "Willis, Walton", "Willis, Walton Home", "Winkler Matt", "Wright, Brian"  
**Date:** 10/15/2009 8:02 AM  
**Subject:** Carter Peak Fed 13-1 Update

Status @ 0800hrs: Drilling @ 2365'.

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

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T 225 R0100 S-13

43 041 50002

**Carol Daniels - Carter Peak Fed 13-1 Update**

**From:** "Wolverine Exploration Rig"

**To:** "Arlan Burchett", "Carpenter, Melinda", "Cecil, Tom", "Childers, Charlie", "Daniels, Carol", "Dellit Chris", "Dustin Doucet", "Geoff Allen", "Gerrard, Jason", "Harwick, Emily", "Hendricks, Marvin", "Holt, Jon", "Irons, Charlie", "Jones, Mark", "Knight, Randy", "McKee, Al", "Novotny Justin", "Paul Spiering", "Treybig, Jerry", "Vrona, John", "Willis, Walton", "Willis, Walton Home", "Winkler Matt", "Wright, Brian"

**Date:** 10/16/2009 6:39 PM

**Subject:** Carter Peak Fed 13-1 Update

Status @ 1800hrs: Drilling @ 3715'

**Chuck Emerson**

**Drilling Supervisor**

**Wolverine Gas & Oil Co.**

**Carter Peak Federal 13-1**

**Rig (970) 812-0022**

**Cell (970) 381-6233**

**Fax (435) 304-1222**

**wolvexpl@drillmail.net**

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**OCT 16 2009**

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Carol Daniels - Carter Peak Fed 13-1 Update

T225 ROW 5-13  
43 041 50002

**From:** "Wolverine Exploration Rig"

**To:** "Arlan Burchett" , "Carpenter, Melinda" , "Cecil, Tom" , "Childers, Charlie" , "Daniels, Carol" , "Dellit Chris" , "Dustin Doucet" , "Geoff Allen " , "Gerrard, Jason" , "Harwick, Emily" , "Hendricks, Marvin" , "Holt, Jon" , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Paul Spiering" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Winkler Matt" , "Wright, Brian"

**Date:** 10/17/2009 5:18 PM

**Subject:** Carter Peak Fed 13-1 Update

Status @ 1700hrs: Drilling @ 4,344'.

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
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T225 ROW S-13

Carol Daniels - Carter Peak Federal 13-1 Update

43 041 50002

**From:** "Wolverine Exploration Rig"  
**To:** ""Edward Higuera"" , ""Jack Magill"" , , ""Donovan, Bill"" , ""Emerson, Chuck"" , ""Zupan, Tom""  
**Date:** 10/18/2009 11:13 AM  
**Subject:** Carter Peak Federal 13-1 Update  
**CC:** "Arlan Burchett" , "Carpenter, Melinda" , ""Cecil, Tom"" , "Childers, Charlie" , ""Daniels, Carol"" , "Dellit Chris" , "Dustin Doucet" , "Geoff Allen " , "Gerrard, Jason" , "Harwick, Emily" , ""Hendricks, Marvin"" , "Holt, Jon" , ""Irons, Charlie"" , ""Jones, Mark"" , "Knight, Randy" , "McKee, Al" , "Novotny Justin" , "Paul Spiering" , ""Vrona, John"" , ""Willis, Walton"" , ""Willis, Walton Home"" , "Winkler Matt" , "Wright, Brian"

Status @ 1100hrs: Drilling @ 4,948'

Chuck Emerson  
Drilling Supervisor  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
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**Carol Daniels - Carter Peak Federal 13-1 Update**

*TaaS Rolw S-13 43 041 50002*

**From:** "Wolverine Exploration Rig"  
**To:** "Arlan Burchett", "Carpenter, Melinda", "'Cecil, Tom'", "Childers, Charlie", "'Daniels, Carol'", "Dellit Chris", "Dustin Doucet", "Geoff Allen", "Gerrard, Jason", "Harwick, Emily", "Hendricks, Marvin", "Holt, Jon", "Irons, Charlie", "Jones, Mark", "Knight, Randy", "McKee, Al", "Novotny Justin", "Paul Spiering", "Treybig, Jerry", "Vrona, John", "Willis, Walton", "Willis, Walton Home", "Winkler Matt", "Wright, Brian"  
**Date:** 10/20/2009 8:30 AM  
**Subject:** Carter Peak Federal 13-1 Update

Status @ 0830hrs: Drilling @ 6180'

**Chuck Emerson**  
**Drilling Supervisor**  
Wolverine Gas & Oil Co.  
Carter Peak Federal 13-1  
Rig (970) 812-0022  
Cell (970) 381-6233  
Fax (435) 304-1222  
[wolvexpl@drillmail.net](mailto:wolvexpl@drillmail.net)

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